

**Ku dyondza hi Vumbiwa ra Riphabliki ra Afrika-Dzonga (1996)**

Vumbiwa ra Afrika-Dzonga (1996) ri na milawu ya le henhla ya tiko. Milawu leyi yi le henhla ku tlula na puresidente, yi le henhla ku tlula tihuvo na ku tlula mfumo. Yi hlamusela ndlela leyi vanhu va tiko va faneleke ku khomana hiyona, timfanelo na vutihlamuleri bya vona eka vanhu van'wana. Vumbiwa ra Tiko ri kona leswaku ri kota ku sirhelela hinkwerhu ka hina sweswi na vana va hina eka minkarhi leyi taka.

**Lemuka matimu ya hina.**

**Hi nga vuyeleli swihoxo swa nkarhi lowu nga hundza.**

**Vumbiwa ra hina ri hi pfuna ku anaka nya no aka vumundzu ku byo antswa bya vanhu hink wavo.**

Hina, vanhu va Afrika-Dzonga,

Hi lemuka ku kala vululami ka nkarhi lowu hundzeke evuton'wini bya hina;

Hi xixima lava va xanisekeke hikwalaho ko hisekela vululami na ntshunxeko etikweni rerhu;

Hi hlonipha lava va tirheke ku aka no hlulukisa tiko ra hina; naswona

Hi tshemba leswaku Afrika-Dzonga i ra hinkwavo lava tshamaka eka rona, hi hlanganile hi ku hambana-hambana ka hina.

Kutani, hi ku tirhisa vayimeri va hina lava hi tihlawuleleke vona hi ntshunxekile, hi amukela Vumbiwa leri tanihi nawu lowu kulukumba wa Riphabliki ku endlela—

Ku lulamisa ku hambanisiwa ka nkarhi lowu hundzeke no vumba rixaka leri simekiweke ehenhla ka masungulo ya swipimelo swa xidemokhirasi, vululami exikarhi ka vanhu na timfanelo ta ximunhu ta masungulo;

Ku simeka masungulo ya rixaka ra xidemokhirasi leri vekaka swilo erivaleni laha eka rona mfumo wu simekiweke ehenhla ka ku navela ka vanhu naswona vaaka-tiko hinkwavo va sirheleriwile hi ku ringana hi nawu;

Ku antswisa xiyimo xa vutomi bya vaaka-tiko hinkwavo no humesela erivaleni vuswikoti bya munhu un'wana na un'wana na;

Ku aka Afrika-Dzonga leri vumbaneke ra xidemokhirasi leri ri kotaka ku teka vutshamo bya rona lebyi faneleke tanihi tiko leri tiyemeleke endyangwini wa tinxaka.

**Lava timfanelo ta wena tanihi Muafrika-Dzonga u tlhela u va na vutihlamule ri byo sirhelela timfanelo ta vanhu van'wana.**

**Tiva Nawumbisi wa timfanelo ta wena & Nawumbisi wa Vutihlamule ri.**

*Xikwembu a xi sirhelele vanhu va hina.*

*Nkosi Sikelel' iAfrika. Morena boloka setjhaba sa heso.*

*God seën Suid-Afrika. God bless South Africa.*

*Mudzimu fhatutshedza Afurika. Hosi katekisa Afrika.*



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**MATHEMATICS IN XITSONGA  
GRADE 3 – BOOK 1  
TERMS 1 & 2  
ISBN 978-1-4315-0014-7  
THIS BOOK MAY NOT BE SOLD.  
14th Edition**



MATEMATIKI HI XITSONGA – Giredi ya 3 Buku ya 1

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Buku ya 1  
Tikotara ta  
1 na 2



MATEMATIKI HI XITSONGA

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Manana Angie Motshekga,  
Holobye wa Dyondzo ya  
Masungulo



Dkd. Reginah Mhaule,  
Xandla xa Holobye wa  
Dyondzo ya Masungulo

Tibuku leti to tirhela ti endleriwe vana va Afrika-Dzonga ehansi ka vurhangeri bya Holobye wa Dyondzo ya Masungulo, Manana Angie Motshekga, na Xandla xa Holobye wa Dyondzo ya Masungulo, Dkd. Reginah Mhaule.

Tibuku to tirhela ta Rainbow ti vumba xiyenge xin'wana xa ntlawa wa migingiriko ya Ndzawulo ya Dyondzo ya Masungulo leyi kongomisiweke eka ku antswisa matirhelo ya vadyondzi va Afrika-Dzonga eka tigiredi ta ntsevu to sungula. Tanihi xin'wana xa swilo leswi nga swirhangana eka nkunguhato wa matirhelo ya mfumo, phurojeke leyi yi humelerile hi ku seketeriwa hi timali hi Nkwama wa Timali ta Tiko. Leswi swi endlile leswaku Ndzawulo yi swi kota ku endla leswaku tibuku leti to tirhela, ti kumeka hi tindzimi hinkwato ta ximfumo handle ko hakeleriwa.

Hi tshemba leswaku tibuku leti ti ta pfuna vadyondzisi eka migingiriko ya vona yo dyondzisa ya masiku hinkwawo no tiyisisa leswaku vadyondzi va vona va kota ku heta kharikhulamu. Hi tiyisisa leswaku hi letela mudyondzisi eka nghingiriko wun'wana na wun'wana hi ku katsa mifungo leyi kombisaka leswi mudyondzi a faneleke ku endla swona.

Hi ni ntshembo wa leswaku vana va ta tiphina no tsakela ku tirha migingiriko leyi nga ebukwini loko va ri karhi va ya emahlweni no dyondza, na leswaku wena, mudyondzisi, u ta tsaka swin'we na vona.

Hi mi navelela ku humelela, wena na vadyondzi va wena eku tirhiseni tibuku leti to tirhela.



Giredi  
ya **3**



**M a t e m a t i k i**

**HI XITSONGA**

*Buku leyi i ya:*

---

**XITSONGA**

*Buku ya*



Siku: \_\_\_\_\_

# Hlayela, hlawula no kombisa!



I tinyeleti tingani?

Ringanisani tinhlamulo.



Pimanyisani leswaku ku na tinyeleti tingani. \_\_\_\_\_

Sweswi ti hlayeleni. \_\_\_\_\_



Kumani muhluri!

Xana i mani a nga endla mpimanyiso wa kahle?

Tatani mavito ya n'wina na tinhlamulo ta n'wina eka tafula leri.

Vito				
Mpimanyiso				
Nhlayo leyi hlayeriweke				
Ku hambana exikarhi ka mpimanyiso na ku hlayela ka n'wina				

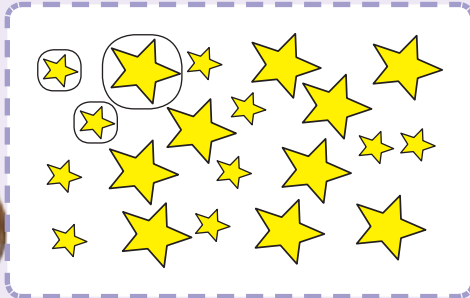
Kotara ya I



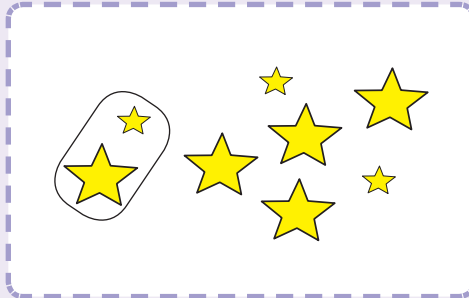
Tindlela to hlayela. Hi pfuneni ku ti tsala ehansi.



Ndzi hlayele hi vun'we.



1, 2, 3, \_\_\_\_\_

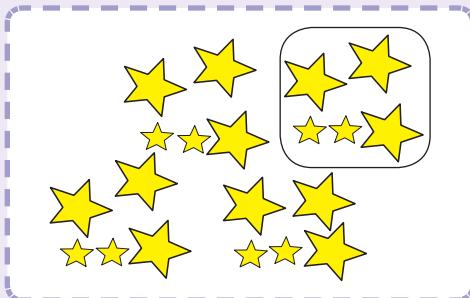


2, \_\_\_\_\_

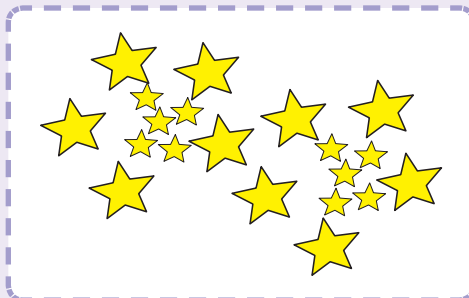


Ndzi hlayele hi vu-2.

Ndzi hlayele hi vuntlhanu.



5, \_\_\_\_\_



\_\_\_\_\_



Ndzi hlayele hi vukhume.





### Tsalani swivulwa swa tinomboro

Tsala swivulwa swimbirhi ku nyika ntsengo wa tingeleti letikulu na letitsongo exifanisweni lexi nga eka pheji ra 2. Swi tsale hi tindlela timbirhi.

Loko u hlanganisa tinomboro tihi kumbe tihi timbirhi malongolokelo ya tona a ya vuli nchumu.

Kulu    Tsongo    Ku fana na leswi    kumbe    ku fana na leswi

 +  = \_\_\_\_\_

 +  = \_\_\_\_\_

naswona tanihi swivulwa swa tinomboro.

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ kumbe \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

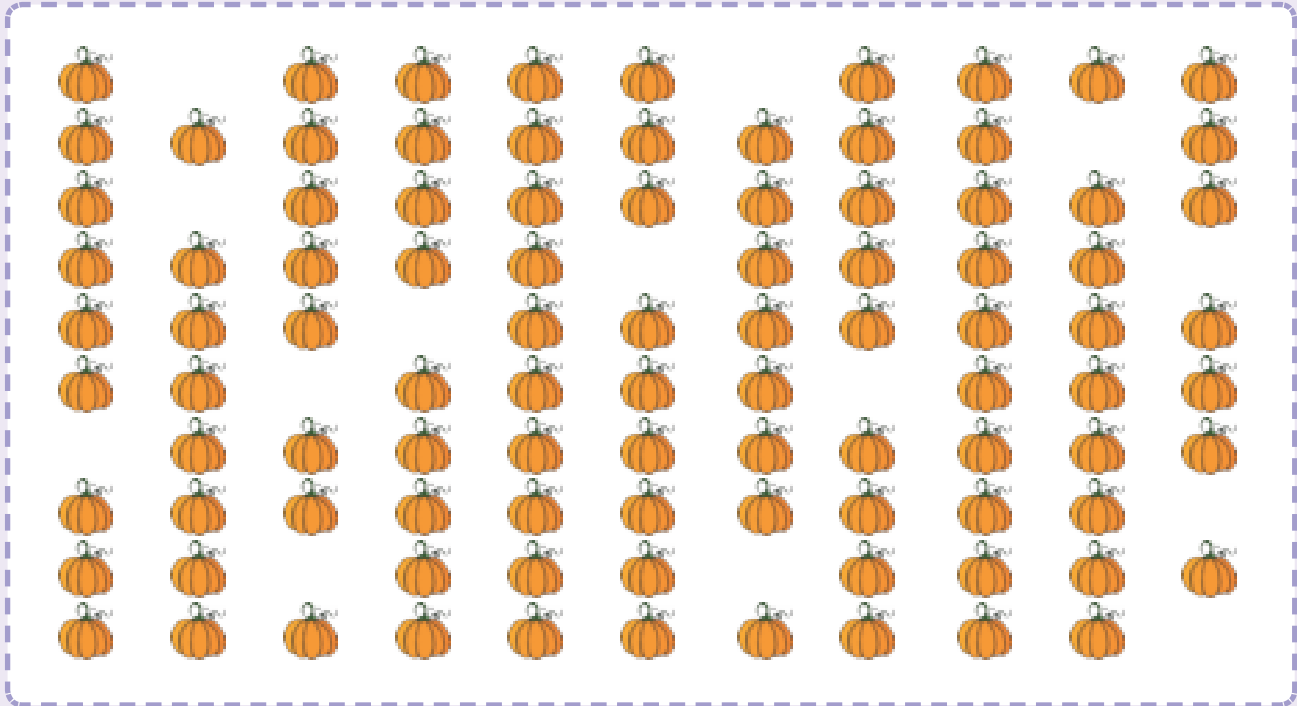
Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_



## Ku hlayela hi vutlhari

Ku hlayela makwembe

Kuma ndlela yo olova yo ma hlayela!



Nhlamulo: \_\_\_\_\_



Ku paka makwembe

Makwembe ya khume ya nghena esakeni rin'we.



Xana ku na masaka mangani? \_\_\_\_\_

Xana ya hundze hi makwembe mangani? \_\_\_\_\_

Xana i makwembe mangani man'wana ma lavekaka ku tatisa saka rin'wana rin'we? \_\_\_\_\_



Ku suka eka + ku ya eka  $\times$  (ku hlanganisa ku ya eka ku andzisa)

Hetisa swivulwa swa tinomboro.

Xikombiso:

$$10 + 10 + 10 + 10 = 40 \Rightarrow \text{ntsengo wa } 4 \text{ wa mintlawana ya } 10 = 40 \Rightarrow 4 \times 10 = 40$$



a.  $10 + 10 + 10 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}}$  wa mintlawana ya 10 =  $\underline{\hspace{2cm}}$   $\Rightarrow$   $\underline{\hspace{2cm}}$   $\times$   $\underline{\hspace{2cm}}$  =  $\underline{\hspace{2cm}}$

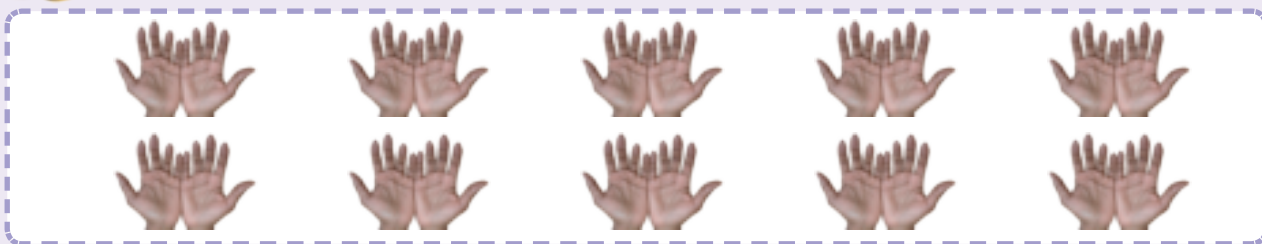


b.  $10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}}$  wa mintlawana ya 10 =  $\underline{\hspace{2cm}}$   $\Rightarrow$   $\underline{\hspace{2cm}}$   $\times$   $\underline{\hspace{2cm}}$  =  $\underline{\hspace{2cm}}$



Swandla na tintiho



Xana i swandla swingani?  $\underline{\hspace{2cm}}$

Xana i tintiho tingani?  $\underline{\hspace{2cm}}$

Tsala nhlamulo ya wena hi 2 wa tindlela.

$\underline{\hspace{2cm}}$  wa mintlawana ya 10 =  $\underline{\hspace{2cm}}$  na  $\underline{\hspace{2cm}}$   $\times$  10 =  $\underline{\hspace{2cm}}$



## Tinomboro eka giridi

Kotara ya I



## Ku vulavula hi tinomboro

Hlayela no vula tinomboro hinkwato ku suka eka 1 – 100. Kombetela loko u ri karhi u hlayela u ya emahlweni.

1	2	3	4	5	6		8	9	10
11									
						27			
			34						40
41									
				55					
		63							
71									
					86				
			94						100

- Tsala nomboro leyi siyiweke eka buloko yin'wana na yin'wana ya wasi.
- Tsala tinomboro letin'wana.
- Xana tinomboro ta xitshopana i ta njhani?



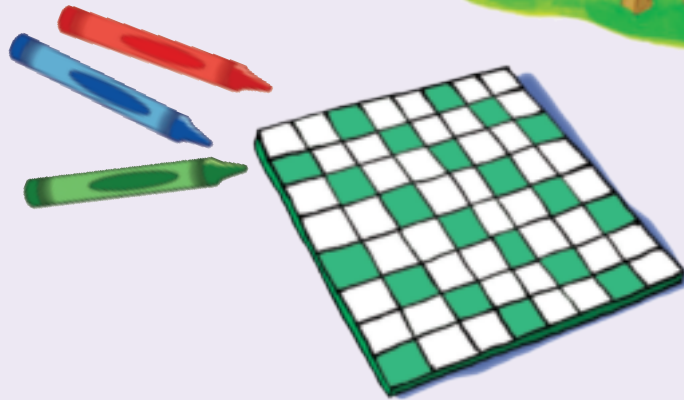
Tsala tinomboro hi marito.

90	makumekaye	41	
77		56	
14		65	



## Ku hlayela no khalara

Tilulamisele ku hlayela muhlovo!



<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> <tr><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td></tr> <tr><td>41</td><td>42</td><td>43</td><td>44</td><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td></tr> <tr><td>51</td><td>52</td><td>53</td><td>54</td><td>55</td><td>56</td><td>57</td><td>58</td><td>59</td><td>60</td></tr> <tr><td>61</td><td>62</td><td>63</td><td>64</td><td>65</td><td>66</td><td>67</td><td>68</td><td>69</td><td>70</td></tr> <tr><td>71</td><td>72</td><td>73</td><td>74</td><td>75</td><td>76</td><td>77</td><td>78</td><td>79</td><td>80</td></tr> <tr><td>81</td><td>82</td><td>83</td><td>84</td><td>85</td><td>86</td><td>87</td><td>88</td><td>89</td><td>90</td></tr> <tr><td>91</td><td>92</td><td>93</td><td>94</td><td>95</td><td>96</td><td>97</td><td>98</td><td>99</td><td>100</td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> <tr><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td></tr> <tr><td>41</td><td>42</td><td>43</td><td>44</td><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td></tr> <tr><td>51</td><td>52</td><td>53</td><td>54</td><td>55</td><td>56</td><td>57</td><td>58</td><td>59</td><td>60</td></tr> <tr><td>61</td><td>62</td><td>63</td><td>64</td><td>65</td><td>66</td><td>67</td><td>68</td><td>69</td><td>70</td></tr> <tr><td>71</td><td>72</td><td>73</td><td>74</td><td>75</td><td>76</td><td>77</td><td>78</td><td>79</td><td>80</td></tr> <tr><td>81</td><td>82</td><td>83</td><td>84</td><td>85</td><td>86</td><td>87</td><td>88</td><td>89</td><td>90</td></tr> <tr><td>91</td><td>92</td><td>93</td><td>94</td><td>95</td><td>96</td><td>97</td><td>98</td><td>99</td><td>100</td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	<table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> <tr><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td></tr> <tr><td>41</td><td>42</td><td>43</td><td>44</td><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td></tr> <tr><td>51</td><td>52</td><td>53</td><td>54</td><td>55</td><td>56</td><td>57</td><td>58</td><td>59</td><td>60</td></tr> <tr><td>61</td><td>62</td><td>63</td><td>64</td><td>65</td><td>66</td><td>67</td><td>68</td><td>69</td><td>70</td></tr> <tr><td>71</td><td>72</td><td>73</td><td>74</td><td>75</td><td>76</td><td>77</td><td>78</td><td>79</td><td>80</td></tr> <tr><td>81</td><td>82</td><td>83</td><td>84</td><td>85</td><td>86</td><td>87</td><td>88</td><td>89</td><td>90</td></tr> <tr><td>91</td><td>92</td><td>93</td><td>94</td><td>95</td><td>96</td><td>97</td><td>98</td><td>99</td><td>100</td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Hlayela no khalara vu-10.	Hlayela no khalara vu-5 ku suka eka 0 ku fika eka 100.	Hlayela no khalara vu-2.																																																																																																																																																																																																																																																																																																												
Hlayela hi vu-10 ku suka eka 10 ku fika eka 100.	Hlayela hi vu-5 ku suka eka 5 ku fika eka 100.	Hlayela hi vu-2 ku suka eka 2 ku fika eka 100.																																																																																																																																																																																																																																																																																																												
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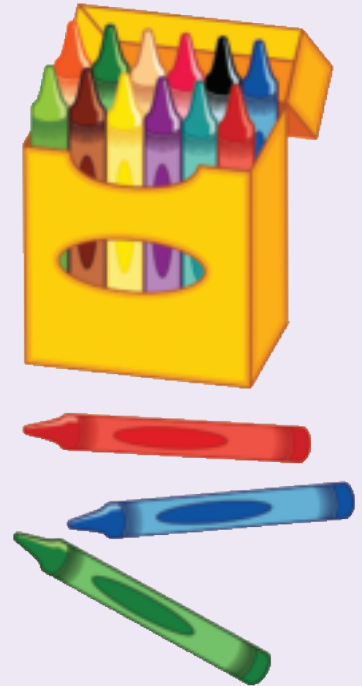
Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_

## Tinomboro eka giridi (ku yisa emahlweni)



Ku lava tipatironi

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



Gwajula vu-10 hinkwabyo.

Gwajula vu-5 hinkwabyo.

Gwajula vu-2 hinkwabyo.

Tsala 20 wa tinomboro leti nga eka tipatironi ta vu-2 na vu-5.

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## Ku hlayela tipatironi

Tata tinomboro leti sijiweke.

0; 10; 20; \_\_\_\_\_; \_\_\_\_\_; 50; \_\_\_\_\_; \_\_\_\_\_; 80; \_\_\_\_\_; 100; \_\_\_\_\_;  
 \_\_\_\_\_; 130; \_\_\_\_\_; \_\_\_\_\_; 160; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; 200

0; 5; 10; \_\_\_\_\_; \_\_\_\_\_; 25; \_\_\_\_\_; \_\_\_\_\_; 40; \_\_\_\_\_; 50; 55; \_\_\_\_\_;  
 \_\_\_\_\_; 70; \_\_\_\_\_; \_\_\_\_\_; 85; \_\_\_\_\_; \_\_\_\_\_; 100

0; 2; 4; 6; \_\_\_\_\_; \_\_\_\_\_; 12; \_\_\_\_\_; \_\_\_\_\_; 18; \_\_\_\_\_; 22; 24; \_\_\_\_\_;  
 \_\_\_\_\_; 30; \_\_\_\_\_; \_\_\_\_\_; 36; 38; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; 46; \_\_\_\_\_;

0; \_\_\_\_\_; 8; \_\_\_\_\_; 16; 20; \_\_\_\_\_; 28; \_\_\_\_\_; 36; \_\_\_\_\_; \_\_\_\_\_;  
 \_\_\_\_\_; 52; \_\_\_\_\_; \_\_\_\_\_; 64; \_\_\_\_\_; 72; \_\_\_\_\_; 80

0; \_\_\_\_\_; 10; \_\_\_\_\_; 20; \_\_\_\_\_; 30; \_\_\_\_\_; 40; \_\_\_\_\_; \_\_\_\_\_; 55;  
 60; \_\_\_\_\_; 70; 75; \_\_\_\_\_; 85; \_\_\_\_\_; \_\_\_\_\_; 100

0; 3; \_\_\_\_\_; 9; \_\_\_\_\_; 15; 18; \_\_\_\_\_; 24; \_\_\_\_\_; \_\_\_\_\_; 33; \_\_\_\_\_; 39;  
 \_\_\_\_\_; 45; \_\_\_\_\_; \_\_\_\_\_; 54; 57; \_\_\_\_\_; 63; \_\_\_\_\_; \_\_\_\_\_; 72; 75



Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_

Siku: \_\_\_\_\_

4

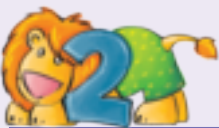
# Nkoka wa ndhawu

## Ku kombisa tinomboro ta wena

Tsema makhadi ya tinomboro ku suka eka phepha ra Xitsemiwa xa l.  
Tirhisa makhadi ku aka tinomboro leti.



19      43      69      54      35      10      9



19                10 + 9 = 19

43                40 + 3 = 43

Sweswi endla hi wexe eka tinomboro leti u tirhisa Switsemiwa swa l.

54

35

69

Kotara ya l



### Tsala tinomboro leti

Hi ku endlele yo sungula.

Hi nga tlhela hi vula leswaku 9 ya vun'we.

19	10 + 9	1 khume 9 ya vun'we	khumekaye
43			
69			
54			
35			
21			
73			
44			
32			
89			
17			
95			
56			
68			
67			



Tsala tinomboro ta ntlhanu to sungula etafuleni laha henhla, hi nongonoko wo suka eka leyitsongo swinene ku ya eka leyikulu swinene.

\_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

## Ku hlanganisa na ku susa



## Xitolo xa Lebo

Nimixo Lebo u na 19 wa maphakiti ya maapula.  
Hi nkarhi wa lanci u na 13 wa maphakiti lama saleke.

a. Xana Lebo u xavisile maphakiti mangani? \_\_\_\_\_

b. Tsala nhlamulo ya wena tanihi xivulwa xa tinomboro.

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_



Tsala xivulwa xin'wana xa tinomboro ku kombisa nhlamulo leyi fanaka.

$15 - 9 = 6$  \_\_\_\_\_



## Ntoloveto wo vuyelela tinomboro

Tsala tinhlamulo.

$$1 + 2 = 3$$

Tirhisa ...

+ - =

$10 + 5 =$ <input type="text"/>	$11 + 6 =$ <input type="text"/>	$14 - 9 =$ <input type="text"/>	$14 - 8 =$ <input type="text"/>
$11 + 5 =$ <input type="text"/>	$17 + 2 =$ <input type="text"/>	$19 - 7 =$ <input type="text"/>	$14 - 5 =$ <input type="text"/>
$12 + 6 =$ <input type="text"/>	$3 + 13 =$ <input type="text"/>	$16 - 5 =$ <input type="text"/>	$16 - 13 =$ <input type="text"/>
$17 + 2 =$ <input type="text"/>	$4 + 15 =$ <input type="text"/>	$15 - 10 =$ <input type="text"/>	$19 - 7 =$ <input type="text"/>



## Mindyangu ya tinomboro

5

9

14

Hi leswi swikombiso swa ndyangu wa nomboro leyi.

$9 + 5 = \underline{14}$	$5 + 9 = \underline{14}$
$\underline{14} - 9 = 5$	$\underline{14} - 5 = 9$



Xana u nga kuma mindyangu hinkwayo ya nomboro ya 14?

$1 + 13 = 14$	$13 + 1 = 14$	$14 - 1 = 13$	$14 - 13 = 1$
$2 + 12 =$			
$3 + 11 =$			
$4 + 10 =$			
$5 + 9 =$			
$6 + 8 =$			
$7 + 7 =$			



Ndzi ta endla  
leswi fanaka hi 12.

12

$1 + 11 = 12$			
$2 + 10 = 12$			
$3 + 9 = 12$			
$4 + 8 = 12$			
$5 + 7 = 12$			
$6 + 6 = 12$			



11 12 13 14 15 16 17 18 19 20

6

Siku:

# Ku andzisa kambirhi na tihafu

Kotara ya I

Xana wa tsundzuka?

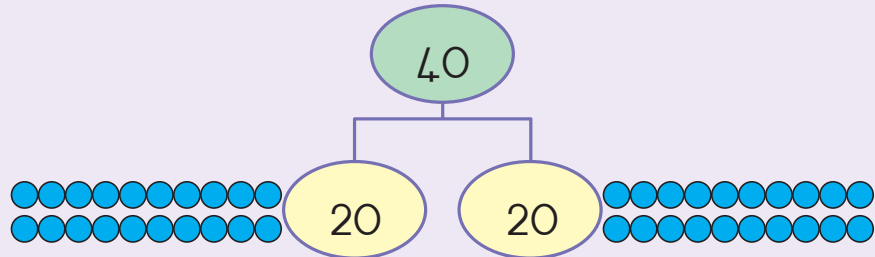
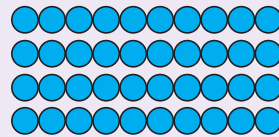
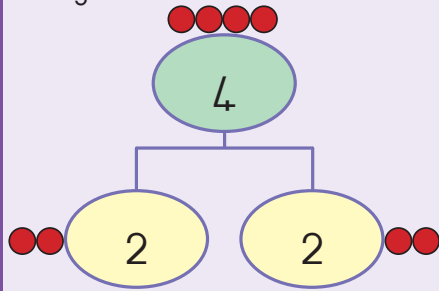
2 i hafu ya 4

20 i hafu ya 40

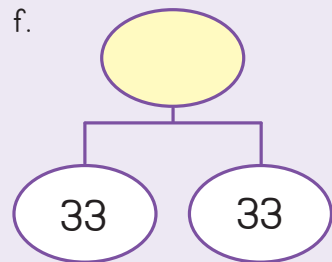
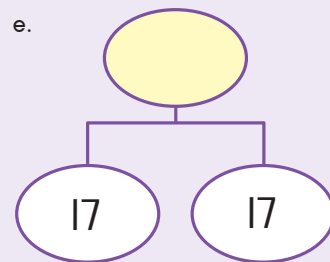
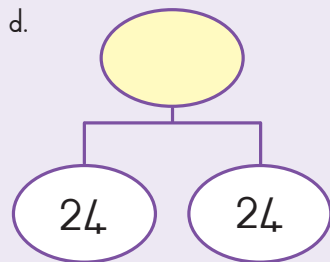
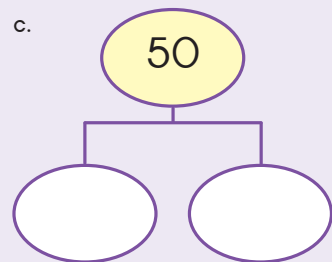
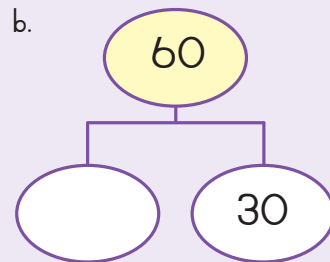
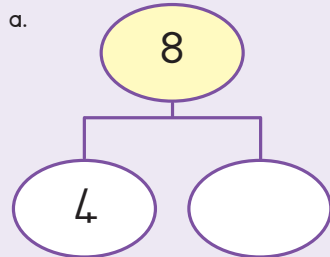
4 i 2 yi andzisiwe kambirhi

40 i 20 yi andzisiwe kambirhi

Hi nga kombisa leswi eka xifaniso...



Kuma mitsengo ya ku andzisa kambirhi kumbe tihafu



Ntlhontlho

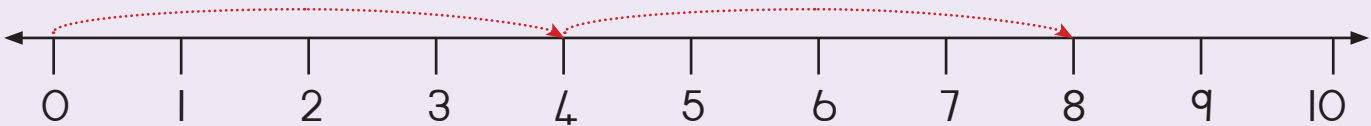
Kuma hafu yin'we ya 3.

Kombisa tanihi nomboro kumbe vito ra nomboro. Xifaniso xi nga ku pfuna.

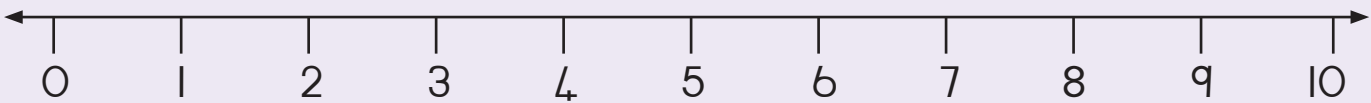


Andzisa nomboro kambirhi u tirhisa ndzhati wa mitsengo. U nyikiwe xikombiso xo sungula.

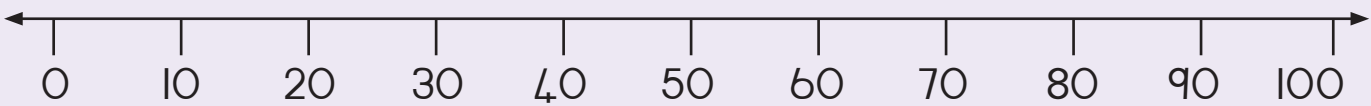
a. Andzisa 4 kambirhi  +  =



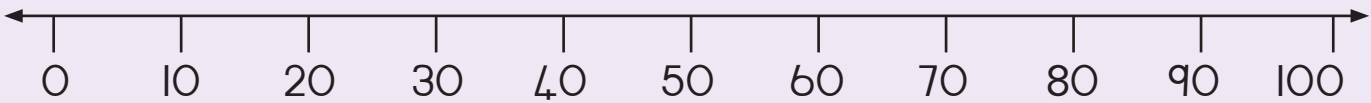
b. Andzisa 5 kambirhi  +  =



c. Andzisa 20 kambirhi  +  =



d. Andzisa 40 kambirhi  +  =



Hetisa leswi landzelaka

a. Andzisa 1 kambirhi	2
b. Andzisa 6 kambirhi	
c. Andzisa 10 kambirhi	
d. Andzisa 30 kambirhi	
e. Andzisa 50 kambirhi	



Hetisa leswi landzelaka

a. Hafula 6	3
b. Hafula 8	
c. Hafula 14	
d. Hafula 60	
e. Hafula 70	

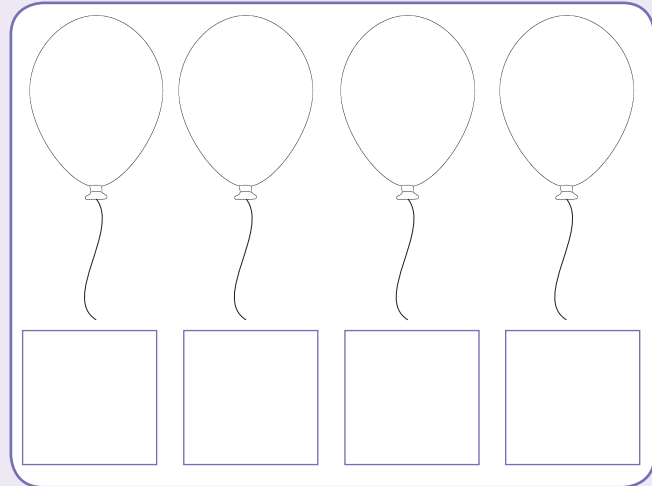


Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

# Swiphemu

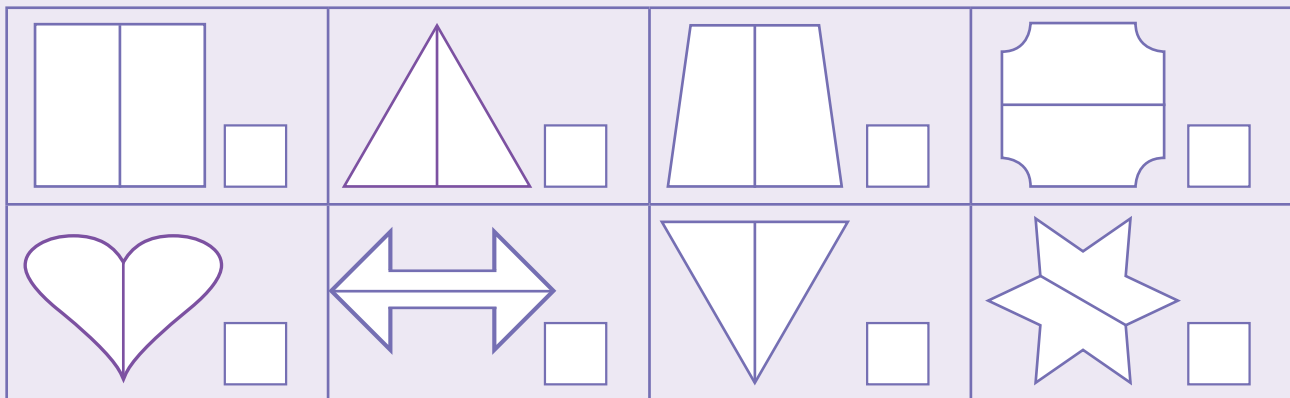
Khalara kotara ya tibaluni hi muhlovo wo tshwuka kasi leti saleke hinkwato hi muhlovo wa wasi.

Khalara hafu yin'we ya bokisi rin'wana na rin'wana hi muhlovo wo tshwuka.



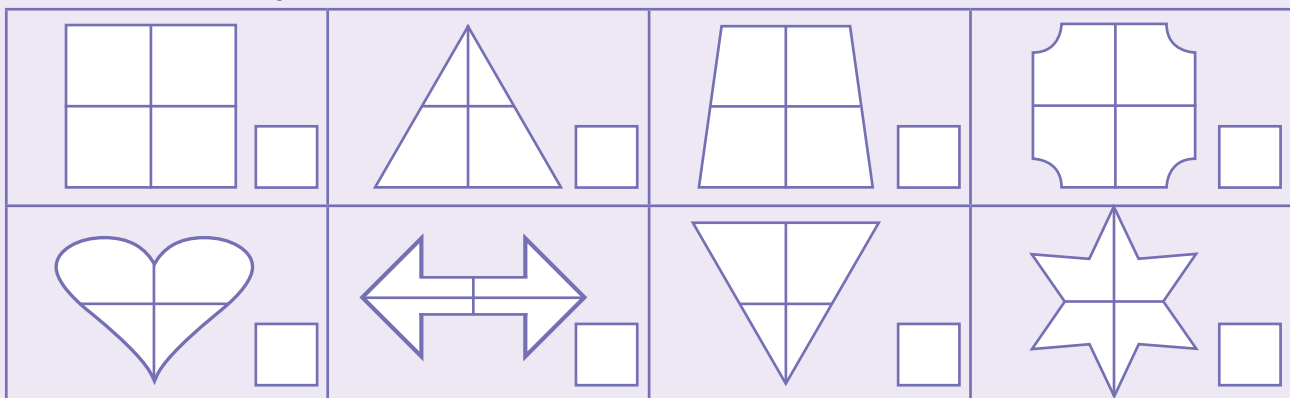
Languta xifaniso. Gwajula swivumbeko leswi kombisaka tihafu.

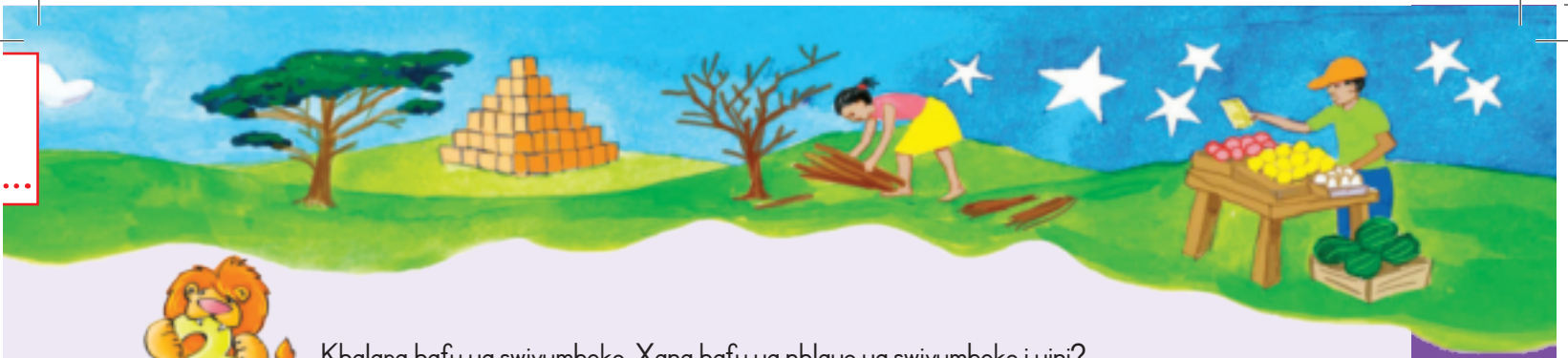
Khalara hafu yin'we ya xivumbeko xin'wana na xin'wana lexi nga avanyisiwa eka tihafu.



Languta xifaniso. Gwajula swivumbeko leswi kombisaka tikotara.

Khalara kotara yin'we ya xivumbeko xin'wana na xin'wana lexi nga avanyisiwa eka tikotara leti ringanaka.





Khalara hafu ya swivumbeko. Xana hafu ya nhlayo ya swivumbeko i yini?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Khalara kotara ya swivumbeko. Xana kotara ya nhlayo ya swivumbeko i yini?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Tsala tanihi mfungho wa xiphemu.

hafu  kotara

Dirowa swivumbeko swin'wana ku kota ku ringanisa hafu yin'wana na yin'wana.



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Dirowa swivumbeko swin'wana ku kota ku ringanisa kotara yin'wana na yin'wana.

--	--	--



Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_

# Ku hlawula mali



## Exitokofeleni

Manana Lubisi u hlayela no hlawula mali yo huma eka swirho swa ntlawa wa vona.



Pimanyisa ntsengo hinkwawo. R \_\_\_\_\_

Hlayela mali. R \_\_\_\_\_

Ringanisa mikumbetelo na mitsengo.



## Ku hlayisa mali

Gugu u hlayisa mali yo kota ku xava tintanghu leti durhaka R89.  
 Ku fika sweswi u na hafu ya ntsengo.  
 Xana u lava mali muni yin'wana?  
 Tsala xivulwa xa tinomboro ku kombisa nhlamulo ya wena.



\_\_\_\_\_



## Ebangi

Maria u hlwulela timali ta phepha hi tinhulu ta 5.  
 U na timali ta phepha leti saleke.  
 Tsala mitsengo ya xifaniso xin'wana  
 na xin'wana.



Ntsengo	
	R _____
	R _____
	R _____



## Ntlhontlho

### Rendzo ro ya entangeni wa swiharhi

Vanhu lavakulu na vana va ya entangeni  
 wa swiharhi. Va xava mathikithi ya R90.

Xana vana i vangani? \_\_\_\_\_

Xana lavakulu i vangani? \_\_\_\_\_

Xana ku na nhlamulo yin'wana?

Vanhu lavakulu \_\_\_\_\_ Vana \_\_\_\_\_

Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_

9

Siku:

Kotara ya I



# Tipatironi

Tirhisa bodo leji ya 200 wa tinomboro ku hlamula swivutiso.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200



Tirhisa bodo leji ya 200 wa tinomboro ku hetisa tinomboro ta mune leti landzelaka eka tipatironi leti ta tinomboro. Kutani khalara patironi eka bodo ya tinomboro.

105, 110, 115, __, __, __, __	87, 90, 93, __, __, __, __
36, 40, 44, __, __, __, __	184, 186, 188, __, __, __, __
70, 65, 60, __, __, __, __	138, 135, 132, __, __, __, __
180, 176, 172, __, __, __, __	14, 12, 10, __, __, __, __



Tsala tinomoro leti landzelaka eka patironi yin'wana na yin'wana. Kutani khalaria patironi. Xana u lemuka yini hi tinomoro leti khalariaiweke hi muhlovo wun'we?

Ku hlayela hi vuntlhanu.

		5			10

Ku hlayela hi vumbirhi.

2	4				

Ku hlayela hi vunharhu.

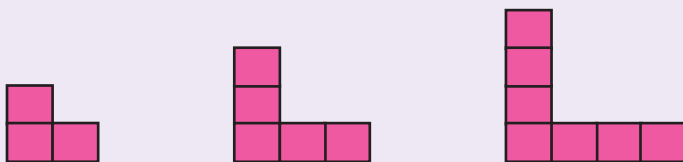
	3		6		

Ku hlayela hi vukhume.

					10



Engetela patironi.



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

10

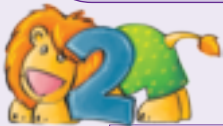
Siku: \_\_\_\_\_

### Tibolo, mabokisi na tisolindara

Kotara ya I



Bana xirhendzevutana eka mabokisi hi muhlovo wa wasi, tibolo hi wo tshwuka kasi tisolindara hi wa rihlaza.



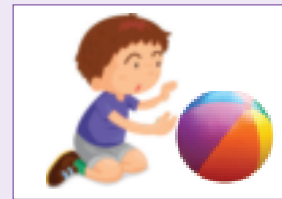
Khalara nhlamulo leyi faneleke.



Bokisi



Silindara



Bolo

rheta

khunguluka

rheta


khunguluka

rheta


khunguluka




Khalara nhlamulo leji faneleke.



makumu yo khotseka
makumu yo thwixi



makumu yo khotseka
makumu yo thwixi




makumu yo khotseka
makumu yo thwixi




makumu yo khotseka
makumu yo thwixi



makumu yo khotseka
makumu yo thwixi



makumu yo khotseka
makumu yo thwixi




makumu yo khotseka
makumu yo thwixi




makumu yo khotseka
makumu yo thwixi




Vula loko bolo yi ri endzhaku ka, emahlweni ka, etlhelo ka kumbe ehenhla ka bokisi.




endzhaku ka	emahlweni ka
etlhelo ka	ehenhla ka



endzhaku ka	emahlweni ka
etlhelo ka	ehenhla ka



endzhaku ka	emahlweni ka
etlhelo ka	ehenhla ka



endzhaku ka	emahlweni ka
etlhelo ka	ehenhla ka



Teacher:
Sign:
Date:

Siku: \_\_\_\_\_

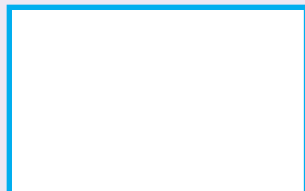
# Dirowa, nyika vito u tlhela u ringanisa swivumbeko swa 2-D

Kotara ya I



Dirowa swivumbeko

Yinhlanharhu



Xirhendzevutana



Xikwere



Yinhlamune



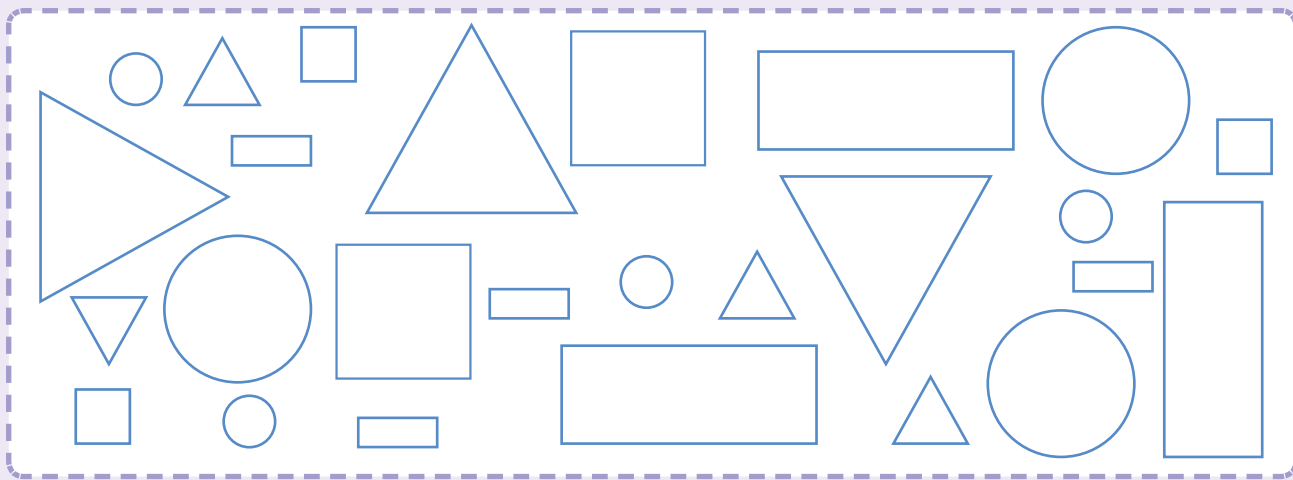
Ku hlayela swivumbeko

Hlayela leswaku ku na swivumbeko swingani swo fana na leswi u nga swi kuma exifanisweni.



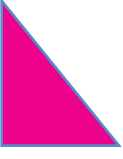


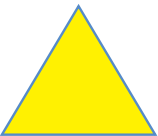

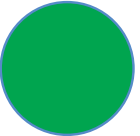



## Khalara

swirhendzevutana leswikulu hi muhlovo wo tshwuka, swirhendzevutana leswitsongo hi rihlaza; tinhlanharhu letikulu hi wasi, tinhlanharhu letitsongo hi xilamula; swikwere leswikulu hi xitshopana, swikwere leswitsongo hi xivunguvungu; tiyinhlamune letikulu hi buraweni, tiyinhlamune letitsongo hi pinki.



## Xana ku na matlhelo mangani?

Xana i matlhelo mangani lama xivumbeko xin'wana na xin'wana xi nga na wona? Tsala nhlayo leyi nga eka xivumbeko. Hi ku endlele xin'we? Khalara nhlamulo leyi faneleke.

 yo khotseka    yo thwixi <b>3</b>	 yo khotseka    yo thwixi	 yo khotseka    yo thwixi	 yo khotseka    yo thwixi
 yo khotseka    yo thwixi	 yo khotseka    yo thwixi	 yo khotseka    yo thwixi	 yo khotseka    yo thwixi



Teacher:
Sign:
Date:

## Nkarhi wa famba



## Ku hlaya nkarhi

Xana i minkarhi yihl leyi tiwachi leti ti yi kombisaka?



\_\_\_\_\_ ehenhla ka nhloko \_\_\_\_\_ ehenhla ka nhloko \_\_\_\_\_ ehenhla ka nhloko \_\_\_\_\_ ehenhla ka nhloko



## Tlula u rhendzeleka na wachi

Pfuna kondlo ku hlayela timinete hi vuntlhanu.  
Sungula eka 12. Famba u rhendzeleka ku fika emakumu.



Xana u hlayele timinete tingani? \_\_\_\_\_

Xana ku na timinete tingani eka awara? \_\_\_\_\_



## Ku tsala nkarhi

Dirowa timhondzo ku kombisa minkarhi.



kotara ku bile awara  
ya 6



hafu ku bile awara ya 8



kotara ku ya eka awara  
ya 11



hafu ku bile awara ya 5



Tumi u ya exikolweni.



U suka ekaya.



U fika exikolweni.

Xana Tumi u teka nkarhi wo tanihi kwihl? \_\_\_\_\_



### Siku ro baka

Maria u baka xinkwa.



Xinkwa xi nghena eovheneni.



Xinkwa xa huma.



Xinkwa xi vupfa hi \_\_\_\_\_ wa timinete.



### Ntlhontlho

Ndzi kota ku vona patironi.



I nkarhi wa ku andzisa kambirhi

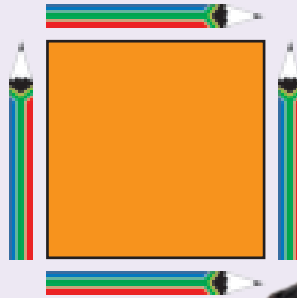
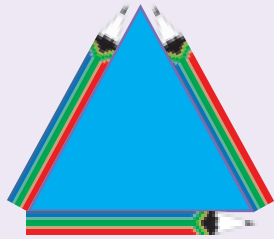
a. Cinca tiawara ku ya eka timinete.

Tiawara	1	2	4	8
Timinete	60			

b. Jabu u teka 45 wa timinete ku fika exikolweni. Tumi u teka nkarhi lowu kambirhi ku endla tano. Xana Tumi u teka tiawara tingani ku fika exikolweni? \_\_\_\_\_

Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_

# Ku pima ku leha



Kun'we, hinkwawo matlhelo ya yinhlamane ya lehile ku ringana 3 wa tipensele.

Kun'we, hinkwawo matlhelo ya xikwere lexi ya lehile ku ringana 4 wa tipensele.



A ndzi tivi leswaku yinhlamane yi lehile no anama ku fika kwihl.

Xana yinhlamane yi lehile ku ringana tipensele tingani?

Xana yinhlamane yi anamile ku ringana tipensele tingani?

ku leha



Xana u ti tirhise njhani tipensele ku hlayela?

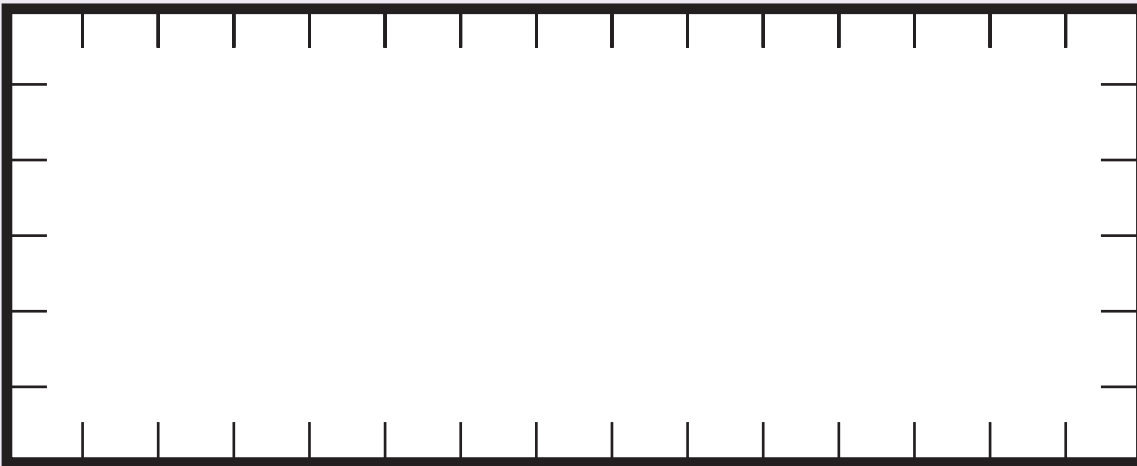


## Ku leha ko hlamarisa

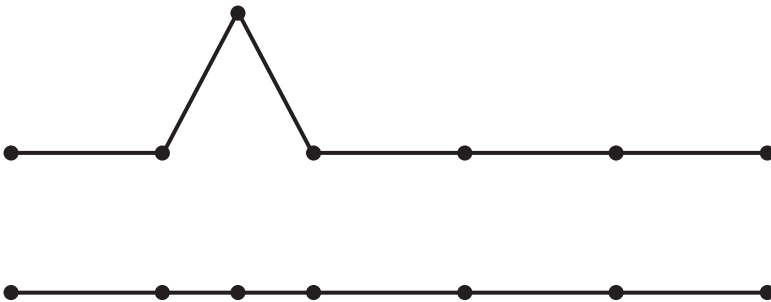
- a. Xana i mitila yo **tshwuka** yingani leyi u faneleke ku yi kuma ku kota ku ringana na ntila wa ntima?



- b. Xana i mitila yo **tshwuka** yingani leyi u faneleke ku yi kuma ku kota ku rhendzeleka na rekt'hengula?



- c. Xana hi yihl yihl nga leha, ndlela ya le henhla kumbe ya le hansi, kumbe ta ringana?



Nhlamulo \_\_\_\_\_

Hikwalaho ka yini? \_\_\_\_\_



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



# Vundzeni

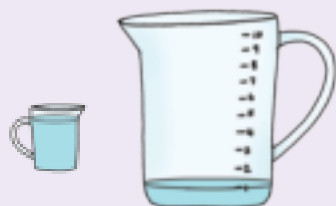
Se ndzi cherile malepula ya mune endzeni ka khapu.

Xana ku laveka tikhapu tin'wana tingani ku kota ku tata xibye xo chela? \_\_\_\_\_



Xana ku na tikhapu ta mati tingani exibyeni xo chela? Xana ku laveka tikhapu tin'wana tingani ku kota ku tata xibye xo chela?

a.



Endzeni ka xibye:  Ku laveka:

b.



Endzeni ka xibye:  Ku laveka:

c.



Endzeni ka xibye:  Ku laveka:

d.



Endzeni ka xibye:  Ku laveka:

e.



Endzeni ka xibye:  Ku laveka:

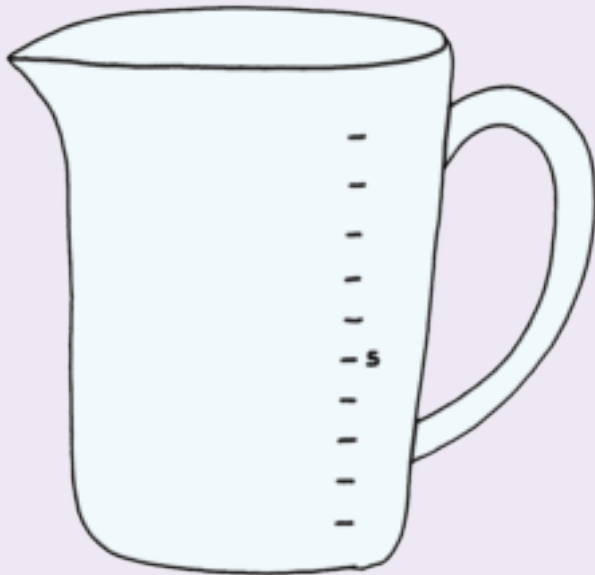
f.



Endzeni ka xibye:  Ku laveka:



Tsala swikhandlu eka jeke leyi yo pima. Hi kombisile xikhandlu xa 5.  
Tata swikhandlu swin'wana ejekeni.

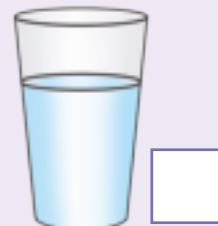


Loko khapu jin'we yi tata jeke ku fika eka xikhandlu xa vumbirhi, xana u fanele ku kuma tikhapu tingani leswaku u kota ku tata jeke ku fika eka:

- a. 4 \_\_\_\_\_
- b. 6 \_\_\_\_\_
- c. 8 \_\_\_\_\_
- d. 10 \_\_\_\_\_



Gwajula swibye swo chela leswi khomaka 1 litara ya swihalaki.



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

### Ku tirha hi ntiko



#### A hi pimeni ntiko!

Ku kota ku kuma leswaku hi tika kumbe hi vevuka ku fika kwihi, hi tirhisa xikalu.

Hi pima ntiko hi tikilogiramu. Hi tirhisa nkomo wa: kg.  
I mani loyi a nga na ntiko lowukulu?



41 kg



38 kg



41 kg



42 kg



39 kg



#### Hi tirhisa xikalu xa balansi ku pima ntiko.

Eka xikalu lexi maapula hinkwawo ya tika ku ringana.

a.

b.

Hlamula xivutiso hi ku tsala a kumbe b.

Hi le ka xikalu xihi laha apula ra rihlaza ni tikaka ku tlula apula ro tshwuka?

Hi le ka xikalu xihi laha apula ra rihlaza ni vevukaka ku tlula apula ro tshwuka?



## Ringanisa swikalu.

Hi ku endlele xo sungula.

Switina swimbirhi swi na mpimo lowu ringanaka na wa tibolo ta mune.

Dirowa leswaku i switina swingani kumbe i tibolo tingani leti lavekaka ku kota ku balansisa swikalu.

a.

b.



Loko phasele rin'we ri tika 3 kg, xana 2 na 3 wa maphasela ya ta va na ntiko muni?

- 2 maphasela \_\_\_\_\_
- 3 maphasela \_\_\_\_\_
- Xana ndzi nga swi kota ku pima 4 wa maphasele hi nkarhi wun'we exikalwini xa khichi? \_\_\_\_\_  
Hikwalaho ka yini swi koteka kumbe swi nga koteki? \_\_\_\_\_



Gwajula swibye swo chela leswi khomaka 1 kg, 500 g, 250 g, 200 g.

○

□

△

Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



## Tintanghu etlilasini



Hlaya xitori.

Thabo: Yoo, mudyondzisi! Jack i xihontlovila! U ambala tintanghu ta sayizi ya 6!

Manana Khoza: Swi kahle! Ina, Thabo, leyo i yikulu eka n'wana wa malembe ya kaye hi vukhale! Xana u na ntanghu ya sayizi yihi Thabo? Xana hi tihi tisayizi leti ambariwaka hi tlilasi hinkwayo? A hi endleni mbalango!

Vadyondzi va huwelela tisayizi ta vona hi un'we un'we.

Manana Khoza u tsala tisayizi exitsalelweni.

Manana Khoza: Hlayelani, kutani mi tsala ntsengo wa sayizi yin'wana na yin'wana etafuleni.

2	2	3	1	2	3	1	4	3	2	3
2	3	2	6	2	2	3	3	3	4	3
4	2	2	3	3	5	3	2	2	2	1
1	1	2	4	2	3	2	3	4	2	4
4	3	2	2	3	1	2	2	1	4	3

Tatisa tafula leri nga laha hansi.

Tisayizi ta tintanghu etlilasini					
Sayizi ya 1	Sayizi ya 2	Sayizi ya 3	Sayizi ya 4	Sayizi ya 5	Sayizi ya 6



Sweswi dirowa girafu ya swif aniso



= mudyondzi un'we

Sayizi ya 1	Sayizi ya 2	Sayizi ya 3	Sayizi ya 4	Sayizi ya 5	Sayizi ya 6



Sweswi hlamula swivutiso leswi.

- Vadyondzi vo tala va ambala tintanghu ta sayizi ya \_\_\_\_\_.
- Nhlayo leyitsongo swinene yi ambala sayizi ya \_\_\_\_\_.
- Vana va \_\_\_\_\_ va nghenerile mbalango lowu.



Wena ke?

Kumisisa leswaku wena na vanghana va wena mi ambala tisayizi tihi!

- Tirhani hi ntlawa wa 6 ku fika eka 8.
- Hlengeletani switiviwa swa n'wina.
- Tsalani nhlayo ya tisayizi ta tintanghu etafuleni.
- Ringanisani tinhlamulo na mitlawa yin'wana.



Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_





Hetisa tafula. Sungula hi nomboro leyi nyikiweke.

	Engetela hi n'we	Hunguta hi n'we	Engetela hi khume	Hunguta hi khume
25				
39				
74				
56				
40				



Bana xirhendzevutana eka nomboro leyikulu swinene.

78    87    17    36    63    33

Bana xirhendzevutana eka nomboro leyitsongo swinene.

99    19    9    14    41    40



Loko < yi vula i **yitsongo** eka na > yi vula i **yikulu eka**, hetisa:

32 > 64      23 > 18

57  98      89  57



Lava 5 wa tinomboro eka nyuziphepha leti nga exikarhi ka 50 na 99 kutani u ti damarheta laha.



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

## Nkoka wa ndhawu ku fika eka 99

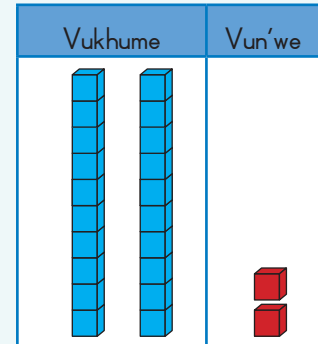


### Ku kombisa tinomboro hi ku tirhisa swilo

Hi nga kombisa tinomboro hi tibuloko ta nkoka wa ndhawu.

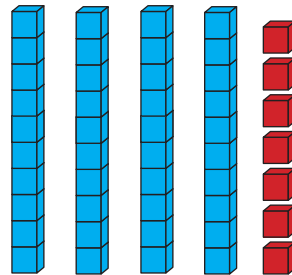
Buloko leyitsongo yi yimela I. I yuniti/vun'we.

Nhonga ya IO wa tibuloko letitsongo yi yimela IO. I IO.



U nga kombisa nomboro hi ku tirhisa vukhume na vun'we.

Leswi hi nga kombisisaka xiswona 47.



Vukhume	Vun'we
4	7

makumemune nkombo  
47



### Ku tsala tinomboro hi tidijiti na hi marito

- a. Ehansi ka xifaniso, tsala leswaku ku na vukhume byingani na leswaku ku na vun'we byingani. Kutani tsala nomboro hi tidijiti na hi marito.

Vukhume 3	Vun'we 1	Vukhume 2	Vun'we 3	Vukhume 8	Vun'we 3
31 makumenharhu n'we		_____		_____	



206

26

b. Hi nga tlhela hi tirhisa makhadi ya tinomoro ku swi kombisa.

Nhlayo	Xana i vukhume byingani?	Ku na vun'we byingani?	Tsala nomboro hi marito
26	2	6	makumembirhi ntsevu
46			
99			



Xana nomboro i yini?

	<p>305</p> <p>35</p>	<table border="1"> <thead> <tr> <th>Vukhume</th> <th>Vun'we</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>5</td> </tr> </tbody> </table> <p>makumenharhu ntlhanu 35</p>	Vukhume	Vun'we	3	5
Vukhume	Vun'we					
3	5					
	<p>□ □</p> <p>□ □</p>	<table border="1"> <thead> <tr> <th>Vukhume</th> <th>Vun'we</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table> <p>_____</p> <p>_____</p>	Vukhume	Vun'we		
Vukhume	Vun'we					
	<p>□ □</p> <p>□ □</p>	<table border="1"> <thead> <tr> <th>Vukhume</th> <th>Vun'we</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table> <p>_____</p> <p>_____</p>	Vukhume	Vun'we		
Vukhume	Vun'we					



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

# Ku veka vukhume kun'we loko hi hlanganisa eka 99

Kotara ya I



Hlaya

Hi leyi ndlela yin'wana ya ku kombisa 22.

Vukhume	Vun'we
1 khume	12 ya vun'we
1 0	1 0 2

Hi na vukhume byin'we

Hi na tiyuniti ta khumembirhi

Hi ta veka 10 wa tiyuniti hi ntlawa.

Sweswi hi na ndlela yin'wana ya ku kombisa 22.

Vukhume	Vun'we
2 ya vukhume	2 ya vun'we
2 0	0 2

A hi hlanganise  $27 + 4$ . Tibuloko ta wasi hi leti ti sungulaka. Leti ta pinki hi leti hi hlanganisaka eka tona.

27 i 2 ya vukhume na 7 ya vun'we. Kutani hi hlanganisa 4 ya vun'we byin'wana.

Vukhume	Vun'we
2 ya vukhume	7 ya vun'we
2 0	7 4

Hi na 2 ya vukhume na 11 ya vun'we

Hi nga kombisa 10 ya vun'we tanihi khume rin'we.

Vukhume	Vun'we
2 0	1 1

Sweswi hi na

$3 \text{ vukhume} + 1 \text{ vun'we} = 31$

Vukhume	Vun'we
3 0	0 1

+      =



Tsala xivulwa xa tinomboro lexi kombisiwaka hi xifaniso

Vukhume	Vun'we	Vukhume	Vun'we	Vukhume	Vun'we
<input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/>	<input type="text"/>
$10 + 5 + 6$		___ + ___ + ___		___ + ___ = ___	

Hetisa xifaniso. Tsala swivulwa swa tinomboro leswi kombisiwaka hi xifaniso.

Vukhume	Vun'we	Vukhume	Vun'we	Vukhume	Vun'we
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Vukhume	Vun'we	Vukhume	Vun'we	Vukhume	Vun'we
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Teacher:

Sign:

Date:

## Hlanganisa eka ndzhati wa mitsengo

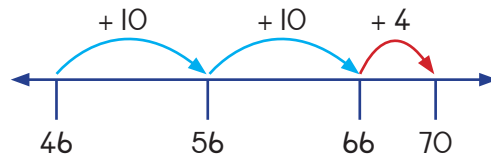
Tshama edesikeni ra wena!

Exikolweni xa hina mudyondzi un'wana na un'wana u na desika ra yena. Ku na 4b wa vadyondzi eka Giredi ya 3A na 24 eka Giredi ya 3B. Xana i madesika mangani ma lavekaka eka titlilasi letimbirhi?



Tirha na nakuloni

Languta hilaha vadyondzi lavanharhu va tirhisaka xiswona ndzhati wa mitsengo ku lulamisa xiphigo. Hetisa tinhlayo u tirhisa xikombiso.



Leswi ndzi endlaka swona hi leswi: Ndzi sungula ndzi hlanganisa 10. Leswi swi ndzi fikisa eka 56. Kutani ndzi tlula 10 yin'wana ku fika eka 66. Ro hetelela, ndzi tlula 4 ku jitamela eka 70.

$$\begin{aligned} &= 46 + 10 + 10 + 4 \\ &= 56 + 10 + 4 \\ &= 66 + 4 \\ &= 70 \end{aligned}$$

Ndzi fanele ku hlanganisa 24 eka 46.



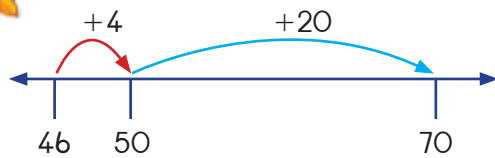
a.  $32 + 25 =$





b.  $52 + 26 =$

c.  $46 + 25 =$



Ndzi fanele ku hlanganisa 24 eka 46.



Leswi ndzi endlaka swona hi leswi: Ro sungula ndzi ta tlula 4. Sweswo swi ta ndzi fikisa eka 50. Ndzi nga tlula 20 tin'wana, leswi ndzi fikisaka eka 70.

$$= 40 + 10 + 20$$

$$= 50 + 20$$

$$= 70$$

a.  $36 + 41 =$

Teacher: \_\_\_\_\_

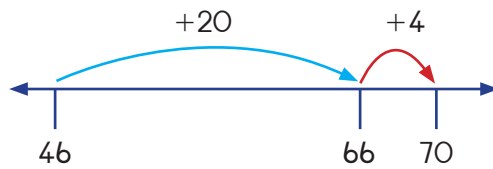
Sign: \_\_\_\_\_

Date: \_\_\_\_\_



Hlanganisa eka ndzhati wa mitsengo  
(ku yisa emahlweni)

b.  $57 + 19 = \square$



Ndzi fanele  
ku engetela 24  
eka 46.



Leswi ndzi endlaka swona hi leswi: Ku suka eka 46, ndzi nga tlula 20. Sweswo swi ndzi fikisa eka 66. Sweswi ndzi fanele ku tlula 4 tin'wana kutani ndzi fika eka 70.

$$= 46 + 20 + 4$$

$$= 66 + 4$$

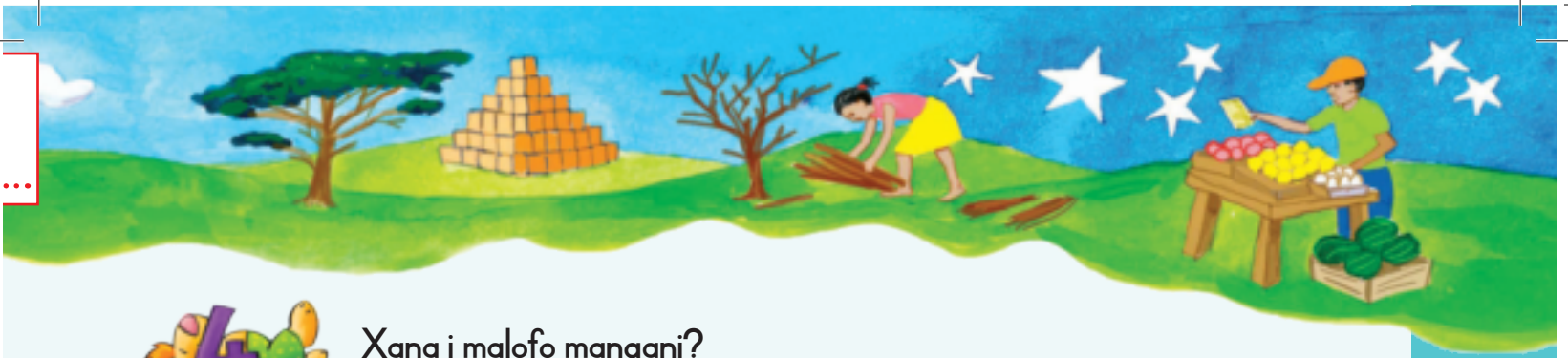
$$= 70$$

a.  $63 + 24 = \square$





b.  $65 + 29 = \square$



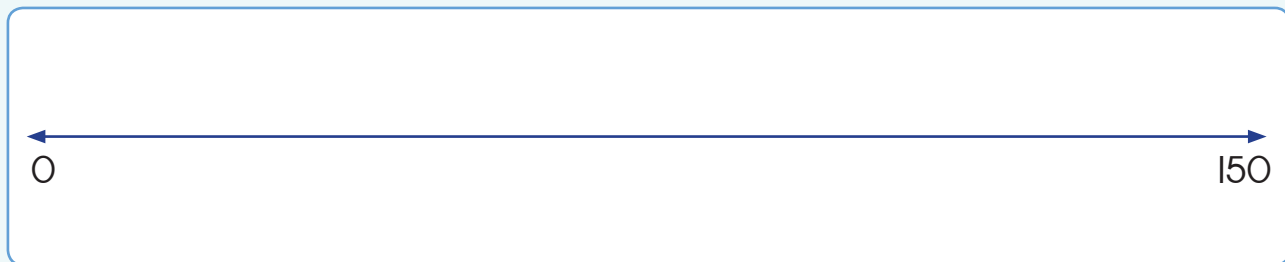


Xana i malofo mangani?

Mubaki u dilivhara 54 wa malofo ya buraweni  na 68 yo basa .

Xana i malofo mangani hinkwawo ka wona?

a. Kuma ntsengo eka ndzhati wa mitsengo. Kombisa tinomboro na sayizi ya mitlulo.



Hlanganisa leswi landzelaka handle ko tirhisa ndzhati wa mitsengo.  
Tirhisa maendlele man'wana na man'wana lawa u ya tsakelaka.

$$38 + 24 =$$

$$58 + 17 =$$

$$75 + 16 =$$

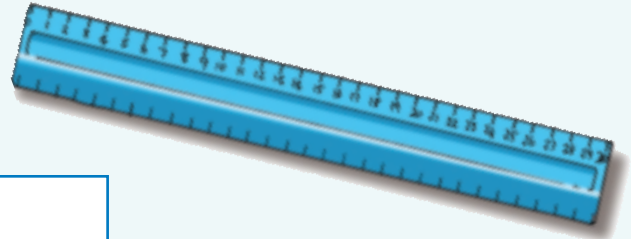
$$83 + 29 =$$



## Susa eka ndzhati wa mitsengo

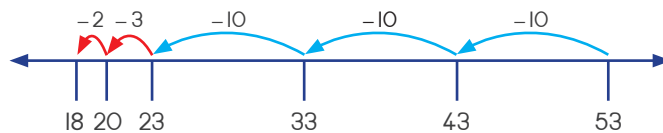
Mudyondzi un'we! Rhula yin'we!

Tlilasi yi lava 53 wa tirhula. Ho va na 35 ntsena.

Xana hi lava tin'wana tingani?  $53 - 35 =$  

Tirha na nakuloni

Hlaya leswi vadyondzi vanharhu va tirhisisa xiswona ndzhati wa mitsengo.



Hikwalaho, ndzi ta sungula eka 53 kutani ndzi susa.

Ndzi ta susa 10, 10, 10 – leswi fikisaka eka 23. Sweswi ndzi ta susa ntlhanu, ro sungula ndzi susa 3, kutani ndzi ta eka 20. Ndzi susa 2 yin'wana kutani ndzi ta eka 18. Hikwalaho hi lava 18 wa tirhula.

$$= 53 - 10 - 10 - 10 - 3 - 2$$

$$= 43 - 10 - 10 - 3 - 2$$

$$= 33 - 10 - 3 - 2$$

$$= 23 - 3 - 2$$

$$= 20 - 2$$

$$= 18$$

Ndzi fanele ku susa 35 eka 53. Nsuso swi vula ku susa.

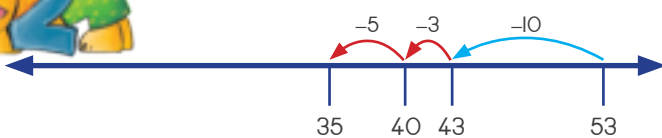




a.  $68 - 24 =$

b.  $74 - 38 =$

c.  $92 - 87 =$



Nsuso swi vula ku kuma  
ku hambana exikarhi ka  
53 na 35.



Ndzi ta sungula eka 53 ndzi hlayela ku ya endzhaku eka 35 ku kuma ku hambana. Loko ndzi hlayela ndzi ya endzhaku hi 10, ndzi kuma 43. Ndzi nga hlayela ndzi ya endzhaku hi 3 yin'wana ku kuma 40. Kutani ndzi hlayela ndzi ya endzhaku hi 5 yin'wana ku kuma 35. 10 hi hlanganisa na 3 hi hlanganisa na ntlhanu i 18. Hikwalaho hi lava 18 wa tirhula tin'wana.

a.  $38 - 14 =$

Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_





b.  $96 - 53 = \square$

c.  $78 - 19 = \square$

d.  $63 - 47 = \square$



### Ku famba hi thekisi

Rendzo ro ya edorobeni hi thekisi ni teka 65 km.

Ku fika sweswi thekisi yi fambile 38 km.

Xana ya ha fanele ku famba mpf huka wo tanihi kwihhi?

Tirhisa ndzhzhati wa mitsengo ku lulamisa xiphigo lexi.



km



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

# I nkarhi wa xinkhubyana




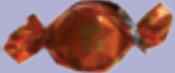


Pulani yo sungula!

Busi u kombela vanghana va yena swifaniso swa swakudya swa phati leswi va swi tsakelaka swinene. Leswi a swi hlengeteke hi leswi. Pfuna ku swi hlawula.



Hlayela kutani u tsala leswaku i vanghana vangani va hlawulaka muxaka wa swakudya swo karhi.

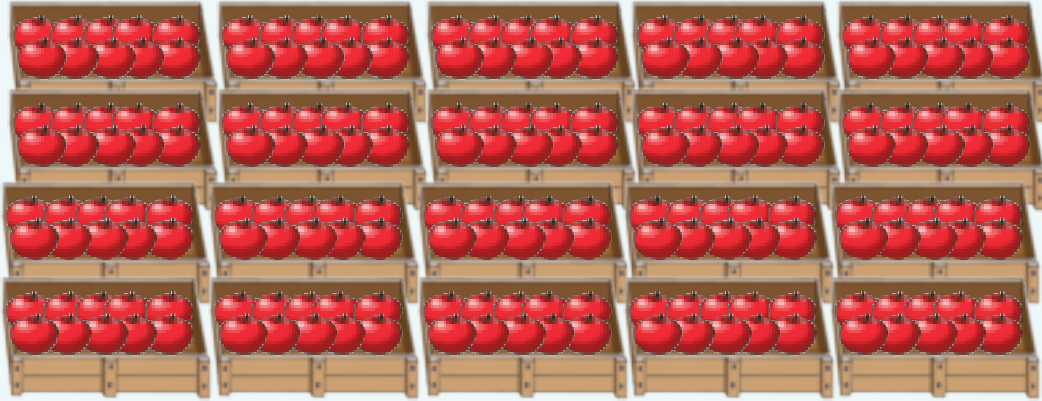
				
Nomboro				



# Ku hlayela ku fika eka 200



Hlayela maapula



Tata tinomboro

Bokisi ri na  wa maapula

Rixaxa ri na  wa maapula

Rixaxa ri na  wa mabokisi

Tinxaxa ta 4 ti na  wa maapula



Xana hi nga paka maapula mangani eka mabokisi lama?

a.

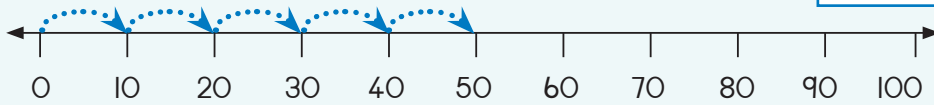
b.

c.

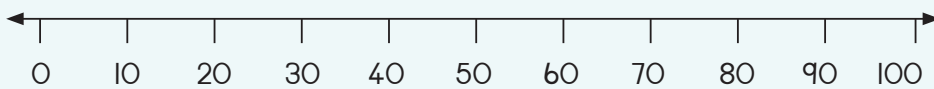


Hlayela eka ndzhati wa mitsengo.

a. Xana ku ta va na maapula mangani eka mabokisi ya ntlhanu?



b. Xana ku ta va na maapula mangani eka mabokisi ya nkombo?





# Titolovete hi vu-5

Kotara ya I



Xana ku na tinhlampfi tingani? Pimanyisa



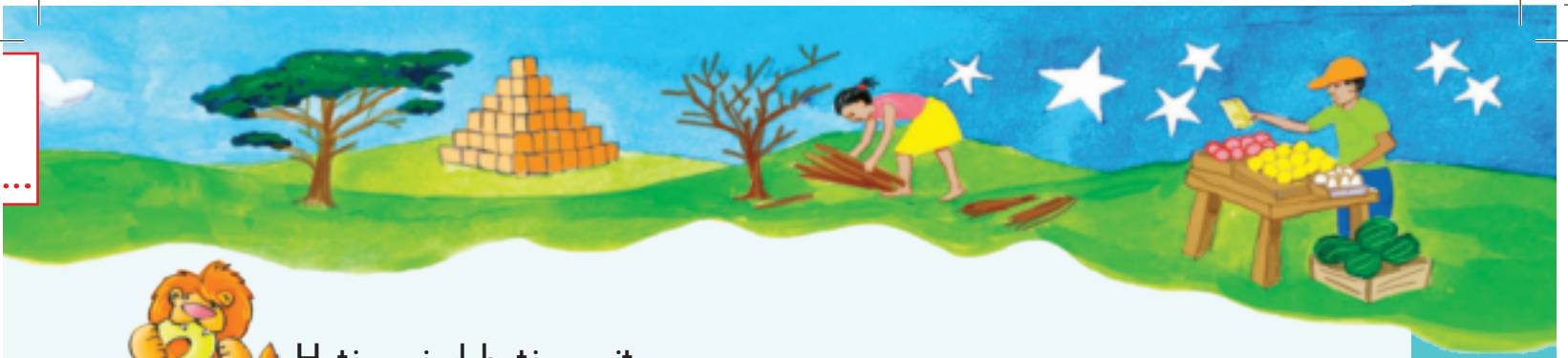
Sweswi hlayela tinhlampfi. Kuma ntsengo.



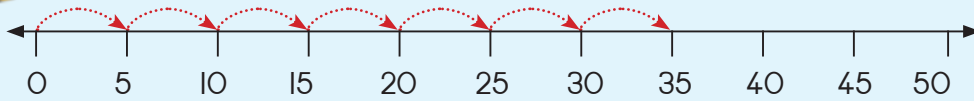
Hlayela hi vu-5

Kuma nhlayo hinkwayo ya mandza ya tinhlampfi. Tsala xivulwa xa tinomboro xa + na X. Hi ku endlele yo sungula.

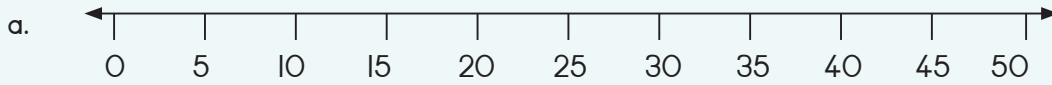
Tinhlampfi na mandza	Xana ku na mandza mangani hinkwawo ka wona?	
5 wa tinhlampfi, yin'wana na yin'wana yi tshikela 2 wa mandza	$2 + 2 + 2 + 2 + 2 = 10$	$5 \times 2 = 10$
5 wa tinhlampfi, yin'wana na yin'wana yi tshikela 10 wa mandza		
5 wa tinhlampfi, yin'wana na yin'wana yi tshikela 4 wa mandza		
5 wa tinhlampfi, yin'wana na yin'wana yi tshikela 3 wa mandza		
5 wa tinhlampfi, yin'wana na yin'wana yi tshikela 6 wa mandza		
5 wa tinhlampfi, yin'wana na yin'wana yi tshikela 8 wa mandza		
5 wa tinhlampfi, yin'wana na yin'wana yi tshikela 5 wa mandza		



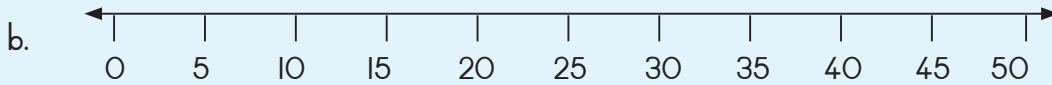
### Hetisa mindzhati ya mitsengo



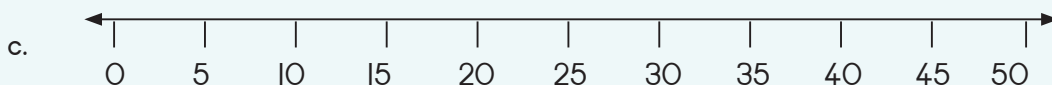
$5 + 5 + 5 + 5 + 5 + 5 + 5 = \boxed{35}$ 
     kumbe  $\boxed{7} \times \boxed{5} = \boxed{35}$



$5 + 5 + 5 + 5 = \boxed{\phantom{00}}$ 
     kumbe  $\boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$



$+ + + + + + + + = \boxed{\phantom{00}}$ 
     kumbe  $\boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$



$\_ + \_ + \_ + \_ + \_ + \_ + \_ + \_ + \_ = \boxed{\phantom{00}}$ 
     kumbe  $10 \times 5 = 50$



### Ku phasa tinhlampfi

Sipho u phasa tinhlampfi ta le xikarhi ka 40 na 50. U tihlayela hi vu-5 naswona u na 1 leyi saleke.

U ti hlayela hi vu-5 naswona u na 2 leti saleke. Xana Sipho u phase tinhlampfi tingani?

Teacher:   
 Sign:   
 Date:



Hlayela masokisi

## Hlayela hi vu-2



a. Xana ku na tiphere tingani ta masokisi? \_\_\_\_\_

b. Xana ku na masokisi mangani? \_\_\_\_\_

c. Xana ku na masokisi lama saleke? \_\_\_\_\_



## Ku hlayela tiphere ta masokisi

Tsala leswaku ku na tiphere tingani ta masokisi no vula loko ku ri na leti salaka.

Masokisi	Nhlayo ya tiphere	Nhlayo ya masokisi	Masokisi ya rin'werin'we lama saleke
			
			
			
			
			



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

25b

Siku:

Kotara ya I



## Hlayela hi vu-2 (ku yisa emahlweni)

Ku vumba tiphere

Tsala tinhlayo-ndzingano na tinhlayo-fadzenga ku suka eka I – 60.

a. Tsala tinhlayo-ndzingano ku suka eka I – 60.

2, 4, 6,

---

---

b. Tsala tinhlayo-fadzenga ku suka eka I – 60.

3, 5, 7,

---

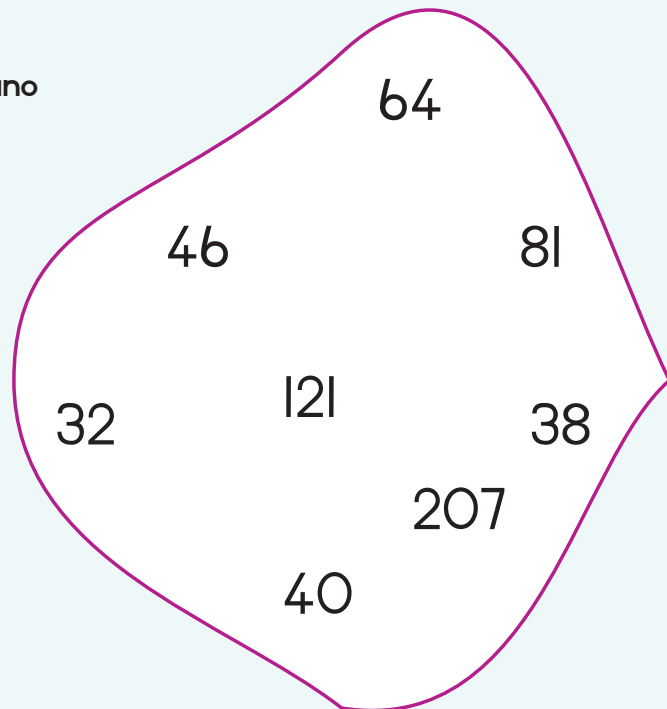
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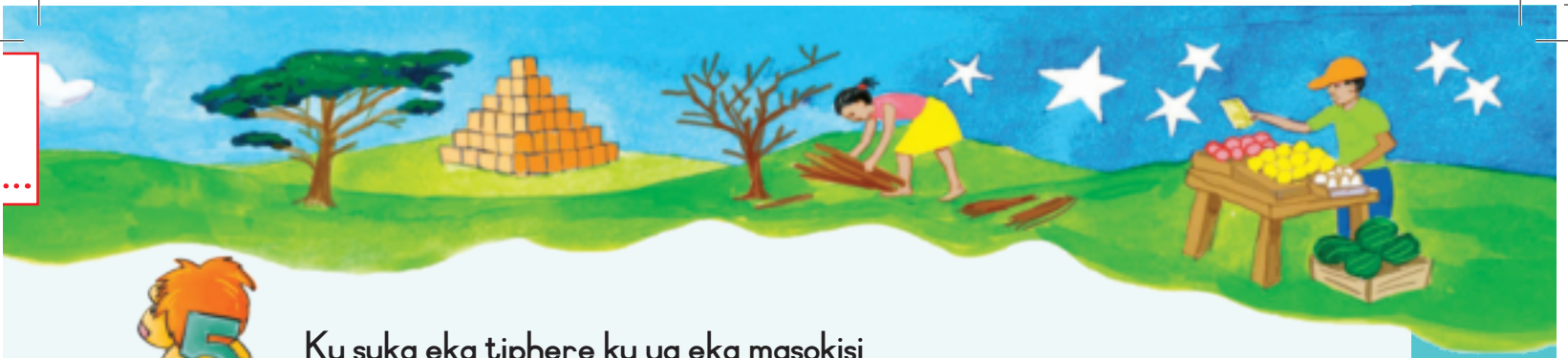


## Fadzenga na ndzingano

Dirowa xirhendzevutana eka tinhlayo-ndzingano.

Dirowa xikwere eka tinhlayo-fadzenga.





## Ku suka eka tiphere ku ya eka masokisi

Xikombiso:

2 wa masokisi = 1 phere



$$2 \times 1 = 2$$

20 wa masokisi = 10 wa tiphere

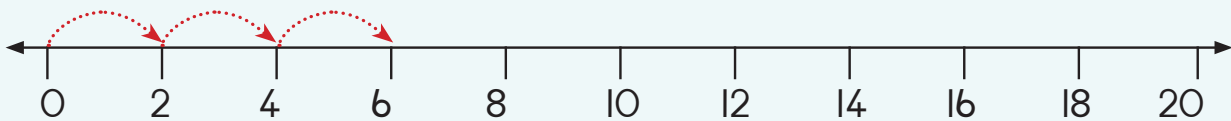
$$2 \times 10 = 20$$

a. Tsala leswaku i masokisi mangani.

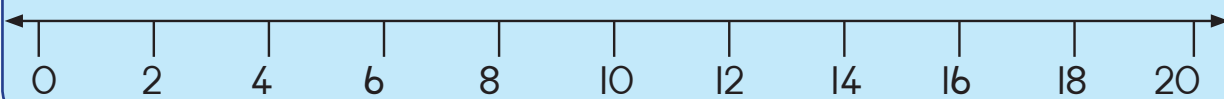
Ehleketi hi vu - 2	Xivulwa xa tinomboro
1 phere = 2 wa masokisi	$2 \times 1 = 2$
2 wa tiphere = _____ wa masokisi	$2 \times 2 = \square$
4 wa tiphere = _____ wa masokisi	
8 wa tiphere = _____ wa masokisi	
9 wa tiphere = _____ wa masokisi	

b. Kombisa nhlayo eka ndzhati wa mitsengo kutani u hetisa.

$$2 + 2 + 2 = 6 \text{ kumbe } 3 \times 2 = 6$$



$$2 + 2 + 2 + 2 + 2 + 2 + 2 = \square \text{ kumbe } \square \times \square = \square$$



# Mali ya khale na ya sweswi



## Xitori xa mali ya hina

Laha Afrika-Dzonga hi tirhisa tirhandi na tisente tanihi mali ya hina. Hi sungule ku tirhisa tirhandi na tisente hi lembe ra 1961.

Eka masiku lawaya khoyini ya I sente a yi ri leyitsongo swinene, ivi ku ta 2 wa tisente kandzhaku ku ta 5 wa tisente.



<p>Ndzi tirhise tikhoyinyana ku hakelela swilo swo tala. Swilo a swi chipile swinene khale!</p>	<p>Ina, u vula swona, a ta ha endliwi!</p> <p>Kambe, kokwana, a ndzi si tshama ndzi vona tikhoyini ta 1 na 2 wa tisente.</p>
<p>Kwalomu ka 50 wa malembe lama hundzeke a hi tirhisa tipondho, macheleni, na tipeni.</p>	<p>Ina, ndza tsundzuka! Pondho a yi ri 20 wa macheleni kasi cheleni yin'we a yi ri tipeni ta 12.</p>



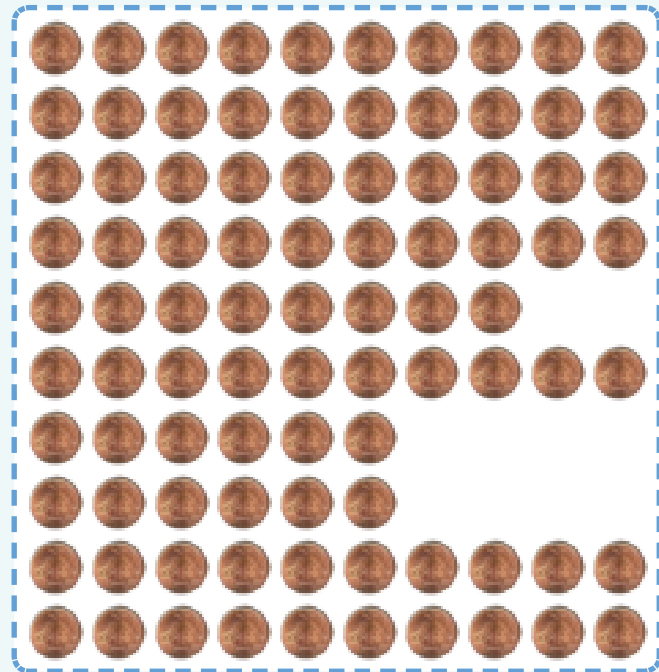
### Hlayela tisente

Hlayela tisente.

Xana ku na tisente tingani?

Xana ku laveka tin'wana tingani ku endla R1,00?

Ti dirowe endzeni ka buloko.



### Xana i tisente tingani?

R1,00 = <input type="text"/> c	R2,00 = <input type="text"/> c
R3,00 = <input type="text"/> c	R1,50 = <input type="text"/> c



### Xana mihandzu yi durha mali muni?

2  ya durha R4,00.

U nga kuma mabanana mangani hi R20,00?

2  ya durha R2,00.

Eka R9,00 ku kumeka maapula mangani?



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

## Hlayela hi vu-3



Mavhilwa hi vu-3



I thirayisekele yi na \_\_\_\_ wa mavhilwa.



5 wa tithirayisekele ti na \_\_\_\_ wa mavhilwa.

$$3 + 3 + 3 + 3 + 3 = 5 \times 3 = \underline{\quad}$$

2 wa tithirayisekele ti na \_\_\_\_ wa mavhilwa.

$$3 + 3 = 2 \times 3 = \underline{\quad}$$

4 wa tithirayisekele ti na \_\_\_\_ wa mavhilwa.

6 wa tithirayisekele ti na \_\_\_\_ wa mavhilwa.

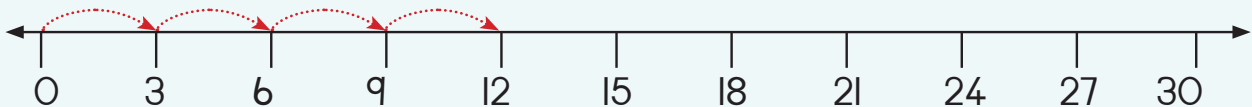
9 wa tithirayisekele ti na \_\_\_\_ wa mavhilwa.

8 wa tithirayisekele ti na \_\_\_\_ wa mavhilwa.



Mindzhati ya mitsengo

Landzelela xikombiso.



a.  $3 + 3 + 3 + 3 = \square = 4 \times 3 = \square$



b.

$$3 + 3 + 3 + 3 + 3 = \boxed{\phantom{00}} = \boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

c.

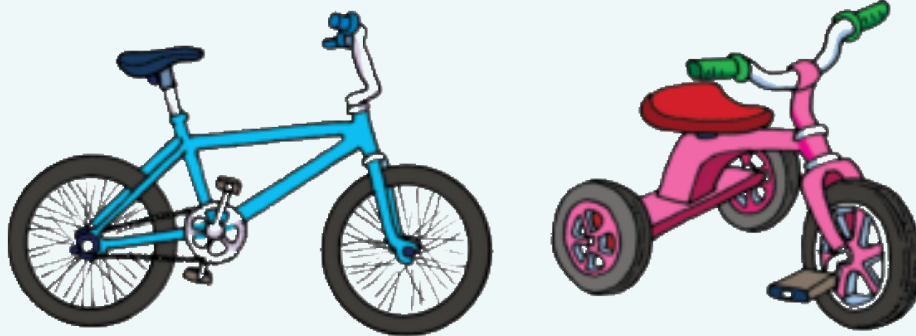
$$\underline{\hspace{10em}} = \boxed{\phantom{00}} = 6 \times 3 = \boxed{\phantom{00}}$$

d.

$$\underline{\hspace{10em}} = \boxed{\phantom{00}} = 10 \times 3 = \boxed{\phantom{00}}$$



### Tibayisikiri na tithirayisekele



Evhengeleni ra swikanyakanya Busi u hlayela mavhilwa ya tibayisikiri na tithirayisekele.

Ku na 14 wa mavhilwa hinkwawo ka wona.

Xana ku na tibayisikiri tingani? \_\_\_\_\_

Xana ku na tithirayisekele tingani? \_\_\_\_\_



Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_

# Xana i yini xi taka hi vu-4?



Milenge ya mune

Mintijiso yin'wana ya  
nomboro ya 4...  
 $4 + 4 = 8$ ;  $2 \times 4 = 8$



Milenge ya homu yi ta hi vu-4.


Xana i yini xin'wana xi taka hi vumune? \_\_\_\_\_

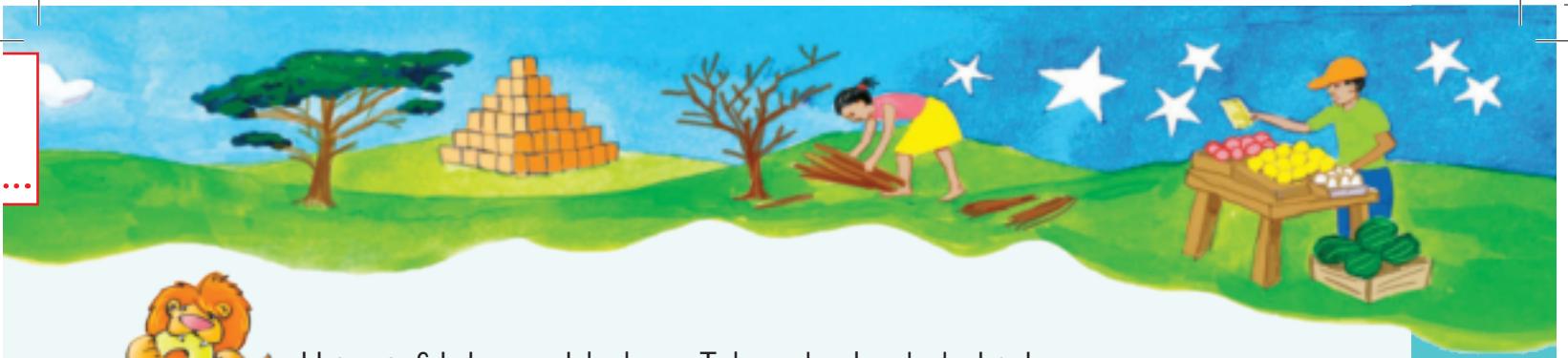


Hlayela milenge

Byelanani tinhlamulo.  
Hlamusela leswi u swi endleke.

Tirhisa leswi u swi tivaka mayelana na vu-4 ku hlamula swivutiso leswi.

1 homu  <input type="text" value="4"/> wa milenge	2 wa tihomu  <input type="text" value="8"/> wa milenge
3 wa tihomu  <input type="text"/>	4 wa tihomu  <input type="text"/>
5 wa tihomu  <input type="text"/>	6 wa tihomu  <input type="text"/>
7 wa tihomu  <input type="text"/>	8 wa tihomu  <input type="text"/>
9 wa tihomu  <input type="text"/>	10 wa tihomu  <input type="text"/>



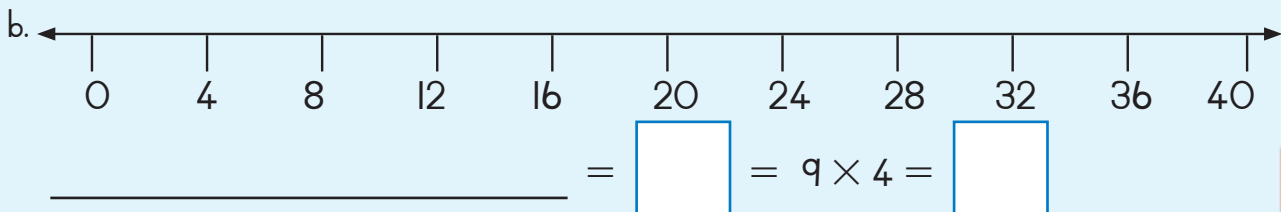
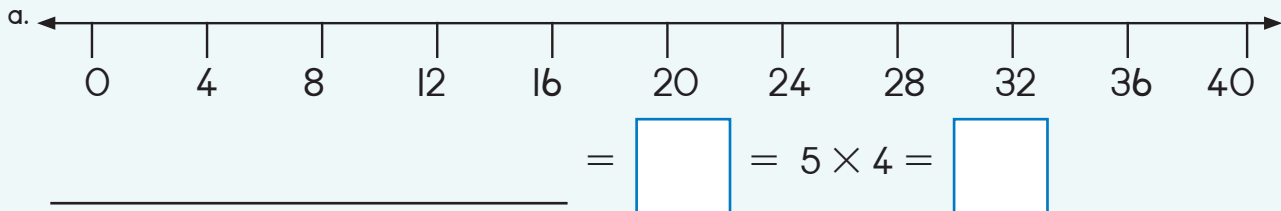
Hetisa tafula leri nga laha hansi. Tirhisa xikombiso ku ku letela.

3 wa tihomu ti na _____ wa milenge.	$4 + 4 + 4 = 4 \times 3 = \underline{12}$
5 wa tihomu ti na _____ wa milenge.	
4 wa tihomu ti na _____ wa milenge.	
7 wa tihomu ti na _____ wa milenge.	
8 wa tihomu ti na _____ wa milenge.	



### Mindzhati ya mitsengo

Kombisa nhlayo yo andzisa eka ndzhati wa mitsengo kutani u hetisa.

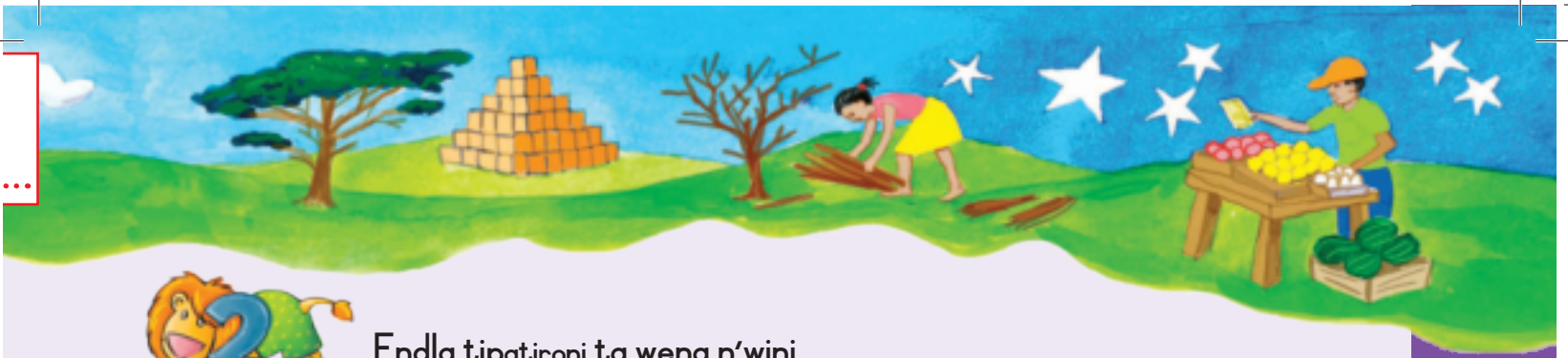


Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_





### Endla tipatironi ta wena n'wini

a. Eka patironi leyi ya tinomboro, tinomboro hinkwato i ta ndzingano. Xana tinomboro letin'wana hi tihi? Ti nghenise.

□ □ □ □ 74 □ □ □ □

b. Eka patironi leyi ya tinomboro, tinomboro hinkwato i ta fadzenga. Xana tinomboro letin'wana ti nga va tihi? Tinghenise.

□ □ □ □ 65 □ □ □ □



### Xana ti wela kwihl?

48 32 12 36 40 84 45  
90 80 15 24 72 150 75

Patironi ya vu-3 na vu-4	Patironi ya vu-3 na vu-5	Patironi ya vu-4 na vu-5
xik. 48		



### Elwandle

Thembi u hlengelela tinkatla ta lwandle ta le xikarhi ka 60 na 70. U ti hlayela hi vu-3, kutani ku na l leyi saleke. Tinomboro leti nga kumekaka i: 61, \_\_\_\_\_, \_\_\_\_\_, 70, Loko a ti hlayela hi vu-5, u na 4 leti saleke. Tinomboro leti nga kumekaka i: \_\_\_\_\_, \_\_\_\_\_. Xana Thembi u na tinkatla tingani? \_\_\_\_\_.



○  
□  
△  
Teacher:  
Sign:  
Date:

30a

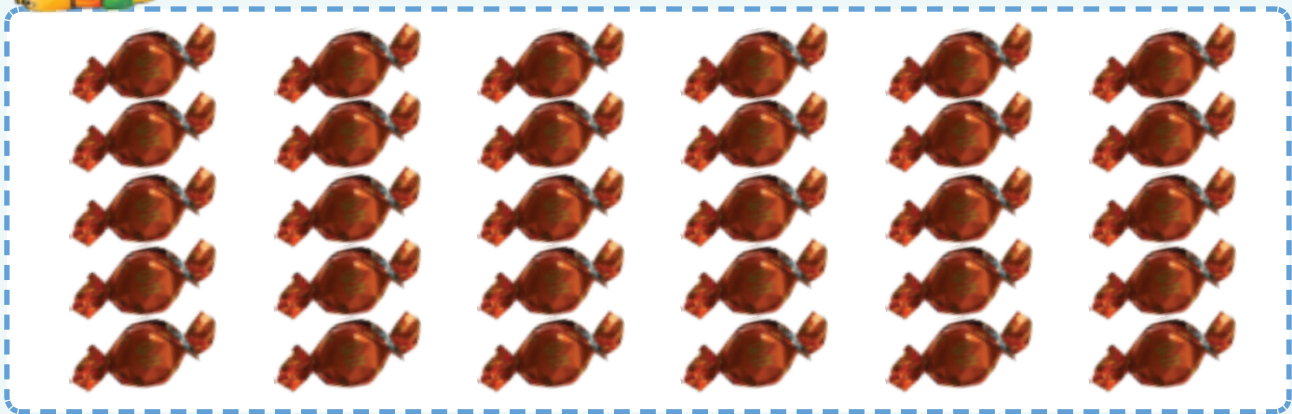
Siku:

Kotara ya I

# Ku avanyisa



Ava swiwitsi



a. Ava 30 wa swiwitsi exikarhi ka 2 wa vana.



Hi nga yi tsala tanihi

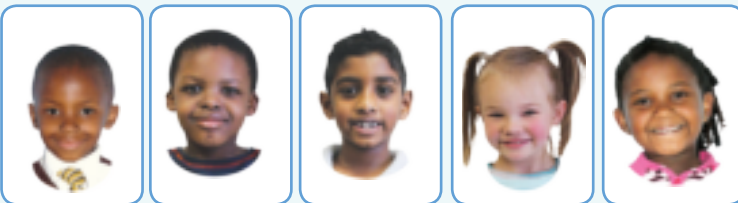
$$30 \div 2 = 15$$

b. Ava swiwitsi exikarhi ka 3 wa vana.



$$\div =$$

c. Avanyisa swiwitsi exikarhi ka 5 wa vana.



$$\div =$$



Hi nga tirhisa tibuloko ta tinomboro ku kota ku avanyisa.

$2 \ 8 \div 2 = 1 \ 4$	

Sweswi endla leti.

a.

$\square \ \square \div 3 = \square \ \square$	

b.

$\square \ \square \div 4 = \square \ \square$	



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

30b

Siku:

.....

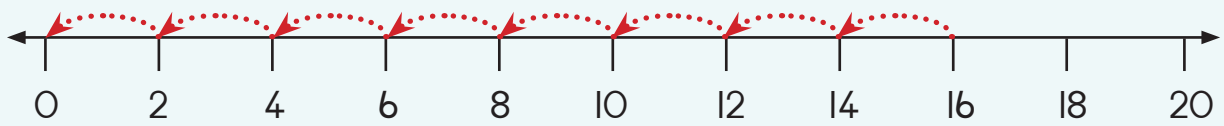
# Ku avanyisa (ku yisa emhweni)

Kotara ya I



Tirhisa mindzhati ya mitsengo ku tsala xivulwa xa tinomboro xa ku susa no avanyisa.

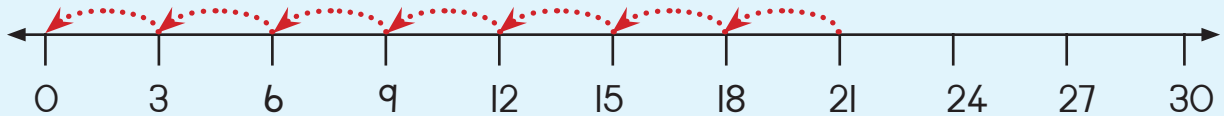
Xikombiso:



$$16 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 = 0$$

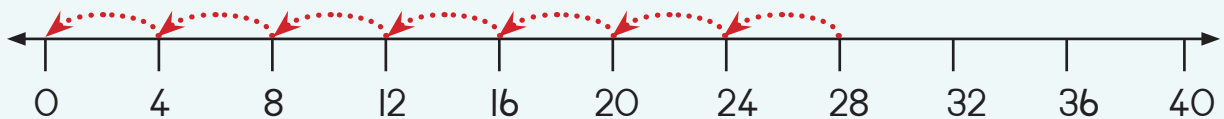
$$16 \div 2 = 8$$

a.



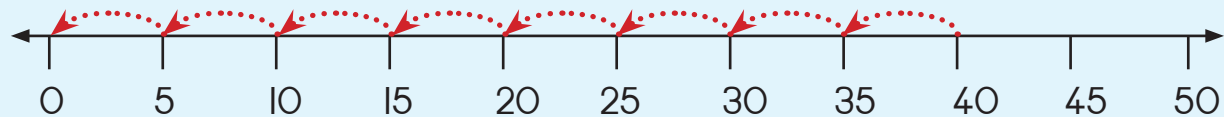
21 - \_\_\_\_\_ = \_\_\_\_\_  
[ ] ÷ [ ] =

b.



28 - \_\_\_\_\_ = \_\_\_\_\_  
[ ] ÷ [ ] =

c.



\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_  
[ ] ÷ [ ] =



Dirowa ndzhati wa mitsengo u kuma nhlamulo.

a.  $30 \div 5 =$



b.  $22 \div 2 =$



c.  $27 \div 3 =$



d.  $32 \div 4 =$



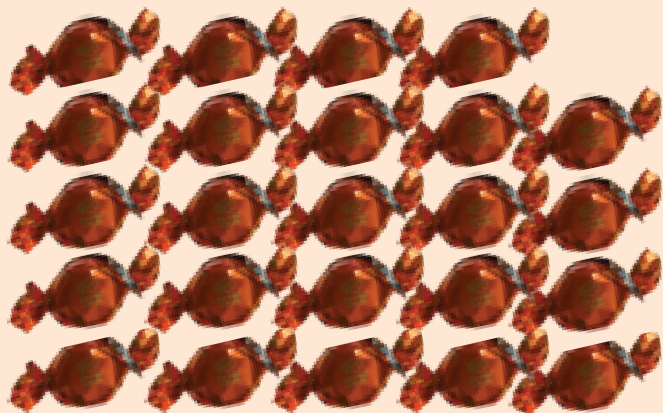
e.  $25 \div 5 =$



### Ntlhontlho

Kombisa tindlela hinkwato to avanyisa 24 wa swiwitsi hi ku ringana exikarhi ka mintlawwa mimbirhi ya vana.

Tsala xivulwa xa tinomoro ku kombisa nhlamulo ya wena.



Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_

# Swiphemu

Kotara ya I



Dirowa mitila ku yelanisa xivumbeko na xiphemu.

$\frac{1}{3}$ n'we-xa-nharhu	$\frac{1}{5}$ n'we-xa-ntlhanu	$\frac{1}{4}$ n'we-xa-mune	$\frac{1}{2}$ hafu yin'we
$\frac{3}{4}$ nharhu-xa-mune	$\frac{4}{5}$ mune-xa-ntlhanu	1 xiheri	$\frac{2}{3}$ mbirhi-xa-nharhu

Khalara:

$\frac{1}{2}$ hafu yin'we	$\frac{1}{3}$ n'we-xa-nharhu	$\frac{1}{4}$ n'we-xa-mune	$\frac{1}{5}$ n'we-xa-ntlhanu

Kombisa \_\_\_\_ ya swiwitsi:

$\frac{1}{2}$ hafu yin'we	$\frac{1}{3}$ n'we-xa-nharhu	$\frac{1}{4}$ n'we-xa-mune	$\frac{1}{5}$ n'we-xa-ntlhanu



Ava swihlayelo exikarhi ka vana vambirhi.

 <table border="1" style="width: 100%; height: 100%;"> <tr> <td style="text-align: center;">😊</td> <td style="text-align: center;">😊</td> </tr> <tr> <td style="text-align: center;">●●</td> <td style="text-align: center;">●●</td> </tr> </table>	😊	😊	●●	●●	 <table border="1" style="width: 100%; height: 100%;"> <tr> <td style="text-align: center;">😊</td> <td style="text-align: center;">😊</td> </tr> <tr> <td style="text-align: center;">●●●</td> <td style="text-align: center;">●●●</td> </tr> </table>	😊	😊	●●●	●●●	 <table border="1" style="width: 100%; height: 100%;"> <tr> <td style="text-align: center;">😊</td> <td style="text-align: center;">😊</td> </tr> <tr> <td style="text-align: center;">●●●●</td> <td style="text-align: center;">●●●●</td> </tr> </table>	😊	😊	●●●●	●●●●	 <table border="1" style="width: 100%; height: 100%;"> <tr> <td style="text-align: center;">😊</td> <td style="text-align: center;">😊</td> </tr> <tr> <td style="text-align: center;">●●●●●</td> <td style="text-align: center;">●●●●●</td> </tr> </table>	😊	😊	●●●●●	●●●●●
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<p>Un'wana na un'wana u amukerile 2 wa swihlayelo. <math>\frac{1}{2}</math> ya 4 wa swihlayelo i 2.</p>	<p>Un'wana na un'wana u amukerile ___ wa swihlayelo. ___ ya ___ wa swihlayelo i ___.</p>	<p>Un'wana na un'wana u amukerile ___ wa swihlayelo. ___ ya ___ wa swihlayelo i ___.</p>	<p>Un'wana na un'wana u amukerile ___ wa swihlayelo. ___ ya ___ wa swihlayelo i ___.</p>																
$4 \div 2 = 2$	$\_ \div \_ = \_$	$\_ \div \_ = \_$	$\_ \div \_ = \_$																



Ava swiwitsi exikarhi ka vana.

 <table border="1" style="width: 100%; height: 100%;"> <tr> <td style="text-align: center;">😊</td> <td style="text-align: center;">😊</td> <td style="text-align: center;">😊</td> <td style="text-align: center;">😊</td> </tr> <tr> <td style="height: 50px;"></td> <td></td> <td></td> <td></td> </tr> </table>	😊	😊	😊	😊					 <table border="1" style="width: 100%; height: 100%;"> <tr> <td style="text-align: center;">😊</td> <td style="text-align: center;">😊</td> <td style="text-align: center;">😊</td> </tr> <tr> <td style="height: 50px;"></td> <td></td> <td></td> </tr> </table>	😊	😊	😊			
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<ul style="list-style-type: none"> <li>• kotara ya swiwitsi = 3</li> <li>• n'we-xa-nharhu ya swiwitsi = ___</li> <li>• mbirhi-xa-mune ya swiwitsi = ___</li> <li>• mbirhi-xa-nharhu ya swiwitsi = ___</li> </ul>	<ul style="list-style-type: none"> <li>• nharhu-xa-mune ya swiwitsi = ___</li> <li>• nharhu-xa-nharhu ya swiwitsi = ___</li> <li>• mune-xa-mune ya swiwitsi = ___</li> </ul>														



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

# Sweswi i nkarhi

Kotara ya I



## Fambelo ra wachi

Hi nga tsala nkarhi wun'we hi tindlela to hambana.

2:15	5:30	9:45
Kotara ku bile awara ya mbirhi	hafu ku bile awara ya ntlhanu	Kotara ku ya eka khume

Tsala leswi hi tindlela to hambana.

<hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/>	<hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/>	<hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/>

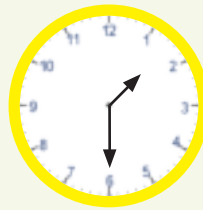


## Ku ya ekaya

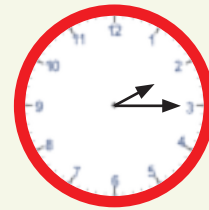
Xana Ben u teka nkarhi wo tanihi kwihi ku fika ekaya?

timinete

tiawara



Ben u suka exikolweni.



Ben u fika ekaya.



## Nkarhi wa haha

Nkarhi hi vu-2 ...



Xana ku na ...

timinete tingani eka 2 wa tiawara? \_\_\_\_\_

tiawara tingani eka 2 wa masiku? \_\_\_\_\_

masiku mangani eka 2 wa mavhiki? \_\_\_\_\_

tin'hweti tingani eka 2 wa malembe? \_\_\_\_\_



## Xana i masiku mangani?

27 Dzivamisoko i Siku ra Ntshunxeko.

16 Khotavuxika i Siku ra Vantshwa.

Dzivamisoko						
M	R	R	R	R	M	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Mudyaxihi						
M	R	R	R	R	M	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Khotavuxika						
M	R	R	R	R	M	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

- Ku suka eka Siku ra Ntshunxeko ku fika eka Siku ra Vantshwa ku na \_\_\_\_\_ wa tin'hweti to helela, \_\_\_\_\_ wa mavhiki yo helela na masiku.
- Xana i mavhiki mangani yo helela hinkwawo ka wona? \_\_\_\_\_. Xana i masiku mangani ma nga sala? \_\_\_\_\_. Xana i masiku mangani hinkwawo ka wona? \_\_\_\_\_.
- Siku ra Lebo ra ku velekiwa i 7 wa masiku ku nga si fika Siku ra Ntshunxeko. Siku ra Musa ra ku velekiwa i masiku mambirhi endzhaku ka Siku ra Vantshwa. Xana i mani lonkulu? \_\_\_\_\_ Hi masiku mangani? \_\_\_\_\_

Kambisisa. Ringanisa.  
Lulamisa.

Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

## Thagete ya 200



## Ku hlayela tinomboro

Hlayela no vula tinomboro hinkwato ku suka eka 101 ku fika eka 200. Kometela loko u ri karhi u hlayela u ya emahlweni.



101	102								
111									
121									
131									
								149	
			154						
				165					
		173							180
181					186				
							198		200



## Tsala tinomboro

- Tsala nomboro leji siyiweke eka xikwere xin'wana na xin'wana xa wasi.
- Tsala tinomboro letin'wana hinkwato.
- Tsala 10 ya tinomboro leti landzelaka endzhaku ka 200.

200; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_



Tsala tinomboro leti sijiweke.

a.

200		180			
					110
50					
					0

b.

87		107	
167			
		207	
			237



Hetisa

200	+	30	+	5	=	235
200	+	40	+	7	=	_____
200	+	60	+	8	=	_____
	+		+		=	293
	+		+		=	256

Tsala tinomboro ku suka eka leyitsongo swinene ku ya eka leyikulu swinene.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



Ku hlayela ku suka eka 100

Kuma leswi u faneleke ku va na swona ku kota ku ya eka nomboro leji landzelaka.

Sungula

100	→ +25 →	125	→		→	129	→		→	138
-----	---------	-----	---	--	---	-----	---	--	---	-----

Heta

168	←		←	157	←		←	151	←		←	145
-----	---	--	---	-----	---	--	---	-----	---	--	---	-----



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



## Ku paka makhandhlela

Manana Nkosi u tirha efemeni ya makhandhlela.  
Loko makhandhlela ya lulamile, u ya pakisa xileswi erhakeni.



Xana ku na makhandhlela mangani ebokisini rin'wana na rin'wana? \_\_\_\_\_

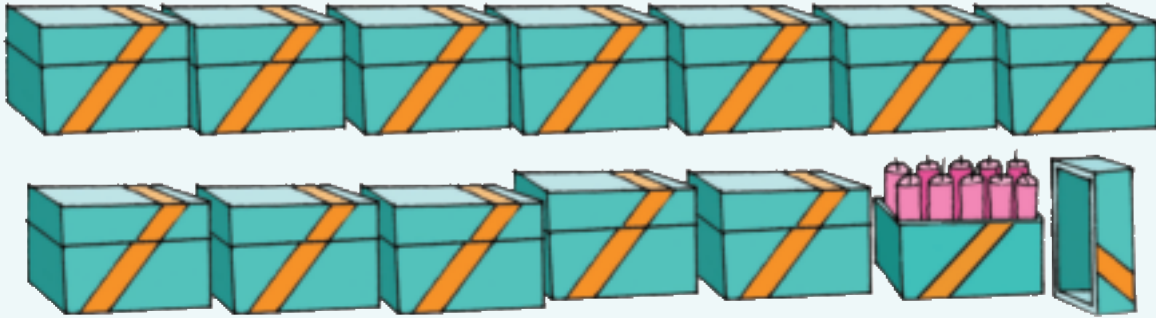
Xana ku na mabokisi mangani eka rhaka yin'wana na yin'wana? \_\_\_\_\_

Ku na makhandhlela mangani eka rhaka yin'wana na yin'wana? \_\_\_\_\_



## Mabokisi ya makhandhlela

Manana Nkosi u pfala mabokisi.



a. Hlayela mabokisi hinkwawo.

Xana i mangani? \_\_\_\_\_

Xana ku laveka mabokisi man'wana mangani? \_\_\_\_\_

Xana ku laveka mabokisi man'wana mangani ku fikelela 200 ya makhandhlela? \_\_\_\_\_

b. Xana ku na makhandhlela mangani eka:

2 wa mabokisi, _____ ya ma	4 wa mabokisi, _____ ya ma
5 wa mabokisi, _____ ya ma	3 wa mabokisi, _____ ya ma
6 wa mabokisi, _____ ya ma	7 wa mabokisi, _____ ya ma

c. Xana i mabokisi mangani ya lavekaka eka:

40 ya ma , _____ ya mabokisi	70 ya ma , _____ ya mabokisi
50 ya ma , _____ ya mabokisi	30 ya ma , _____ ya mabokisi



35a

Siku:

Kotara ya 2

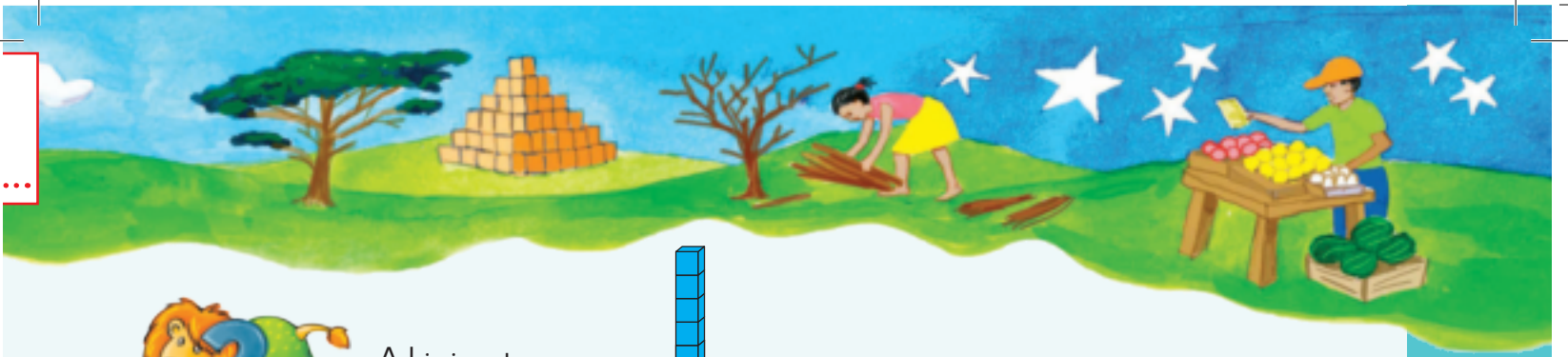


Ku veka vukhume kun'we na  
ku byi hambanisa

Ku veka vukhume kun'we loko hi hlanganisa

<p>A hi hlanganise <math>56 + 73 =</math></p>		<p>+</p>
	<p>5 ya vukhume na 6 ya vun'we</p>	<p>7 ya vukhume na 3 ya vun'we</p>

vu-100	vu-10	vu-1
<p>Kun'we hi na 12 ya vukhume. Hi nga veka 10 ya vukhume kun'we ku vumba dzana ri 1.</p>		



A hi ringete.



na



Xikombiso:  $82 + 34$

$100 + 20 + 6 = 126$	

b.  $65 + 52$


c.  $76 + 63$


d.  $86 + 65$




Teacher:
Sign:
Date:

## Ku veka vukhume kun'we na ku byi hambanisa (ku yisa emahlweni)



### Ku veka mintlawa swin'we

Tirhisa tibuloko ta wena ta nkoka wa ndhawu.

Tirhisa tibuloko ta beyisi ra khume ku endla tinomboro letimbirhi.	Hinkwato kun'we I vukhume byingani? I vun'we byingani?	Xana u ntlawahatile vukhume kumbe vun'we? Kambisisa nkoka wa ndhawu laha u nga vumba ntlawa nakambe.	Tsala nomboro.
$23 + 99 =$	_____ ya vukhume _____ ya vun'we	$11 \text{ ya vukhume} + 12 \text{ vun'we}$ $= 110 + 12$	122
$38 + 25 =$	_____ ya vukhume _____ ya vun'we		
$77 + 31 =$	_____ ya vukhume _____ ya vun'we		
$68 + 45 =$	_____ ya vukhume _____ ya vun'we		
$83 + 47 =$	_____ ya vukhume _____ ya vun'we		



### Ku hambanisa vukhume loko hi susa

Loko hi susa, nkarhi wun'wana hi fanele ku kombisa khume rin'we tanihi vun'we bya khume, kumbe dzana rin'we tanihi 10 ya vukhume.

A hi suse:  $60 - 55 =$

Hi sungula vukhume bya ntsevu naswona ku hava vun'we. Hi lava ku susa vukhume bya ntlhanu na vun'we bya ntlhanu. (Vun'we lebyi susiwaka byi khalariaiwe hi muhlovo wa mpunga).

Hi nga kombisa vukhume bya ntsevu hi ndlela leyi.	Kumbe tanihi vukhume bya ntlhanu na vun'we bya khume.	Susa vukhume bya ntlhanu na vun'we bya ntlhanu. Vun'we bya ntlhanu byi sele.	
			$60 - 55 = 5$



A hi ringete.

a.  $70 - 28$

7 ya vukhume	6 ya vukhume na 10 ya vun'we	$70 - 28 =$	

b.  $90 - 46$


c.  $80 - 53$




Ku kuma phere ya tinomboro

a.

200	
30	

b.

200	
70	

c.

200	
	105

d.

200	
85	



Teacher:
Sign:
Date:

# Rendzo ro ya eka n'anga ya meno

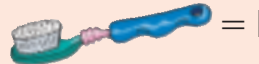


Ntlawa wa vana wu endzela n'anga ya meno.



Xana u buracha meno ya wena kangani hi siku?

Leswi vana va yi byelaka swona hi leswi.



	✓	✓	✓	✓	✓	✓	✓	✓	✓										
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓														

a. Hlayela mifungho ya (✓) leyi kombisaka leswaku vana va buracha meno ya vona kangani. Tsala tinomboro.

Kan'we hi siku	
Kambirhi hi siku	
Kanharhu hi siku	

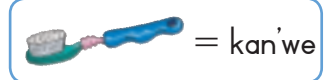
b. Xana u nga vula yini?

Vana vo tala va buracha meno \_\_\_\_\_ hi siku.

Ku na \_\_\_\_\_ wa vana entlaweni.



Dirowa girafu ya swifaniso yo kombisa leswaku vana va buracha meno ya vona kangani hi siku.



Endla mbalango etlilasini ya n'wina. Vutisa 15 – 20 wa vadyondzi swivutiso.

a. Xana va buracha meno kangani hi siku? \_\_\_\_\_

b. Dirowa girafu ya swifaniso leyi fanaka na leyi nga laha henhla ku kombisa mbuyelo wa wena.



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

## Hlanganisa u tlhela u katsa



Ku tsala nhlayo ya wena

Busi a nga hlanganisa **van'we** na **vukhume** a tlhela a byi katsa. A nga hlanganisa no susa ephepheni, ku ri hava tibuloko. Nkarhi wun'wana u rhandza ku sungula hi makhadi ya tinomboro ku kombisa tinomboro.

Hikwalaho eka nhlayo ya  $56 + 73$ , u kuma makhadi lama:

$$\begin{array}{|c|c|} \hline 5 & 0 \\ \hline \end{array} \begin{array}{|c|} \hline 6 \\ \hline \end{array} + \begin{array}{|c|c|} \hline 7 & 0 \\ \hline \end{array} \begin{array}{|c|} \hline 3 \\ \hline \end{array}$$

U hlanganisa vu-1 kutani a veka ehansi khadi ra vu-9.

U tiva leswaku:  $50 + 70 = 120$ .

U teka khadi ra **vudzana**, ra vu-20 na ra vu-9

ku endla nomboro ya 3 wa tidijiti.

9

$$\begin{array}{|c|c|c|} \hline 1 & 0 & 0 \\ \hline \end{array} \begin{array}{|c|c|} \hline 2 & 0 \\ \hline \end{array} \begin{array}{|c|} \hline 9 \\ \hline \end{array}$$

U tsale hi ndlela leyi:  
 $50 + 70 + 6 + 3$   
 $= 50 + 70 + 9$   
 $= 120 + 9$   
 $= 100 + 20 + 9$   
 $= 129$

Tumi u tiva leswaku tibuloko ti tirha hi ndlela yihi.

U endla  $56 + 73$  hi ndlela leyi:

$$\begin{array}{r} 50 + 6 + 70 + 3 \\ \hline 120 + 9 \\ \hline = 129 \end{array}$$



Aakar u rhandza ku katsakanya.

Hi lawa matirhele ya yena eka leyi:

$$\begin{array}{r} 56 + 73 \\ \hline = 50 + 70 + 10 - 1 \\ \hline = 130 - 1 = 129 \end{array}$$





## Hlanganisa u tlhela u katsa (ku yisa emahlweni)



Sweswi ringeta. Endla yin'wana na yin'wana hi tindlela timbirhi.

a.  $86 + 62$

Maendlele ya Busi

$$80 + 60 + 6 + 2$$



Maendlele ya Tumi

$$80 + 6 + 60 + 2$$



b.  $72 + 63$

c.  $81 + 57$

d.  $69 + 71$

Tirhisa maendlele ya Aakar ku endla leyi.



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

# Hlanganisa u tlhela u katsa (ku yisa emahlweni)

Sweswi a hi suseni.



a.  $87 - 53$

Maendlele ya Busi

$$80 - 50 + 7 - 3$$

$$= 30 + 4$$

$$= 34$$



Maendlele ya Tumi's

$$80 + 7 - 50 + 3$$

$$= 30 + 4$$

$$= 34$$



b.  $95 - 73$

c.  $86 - 62$

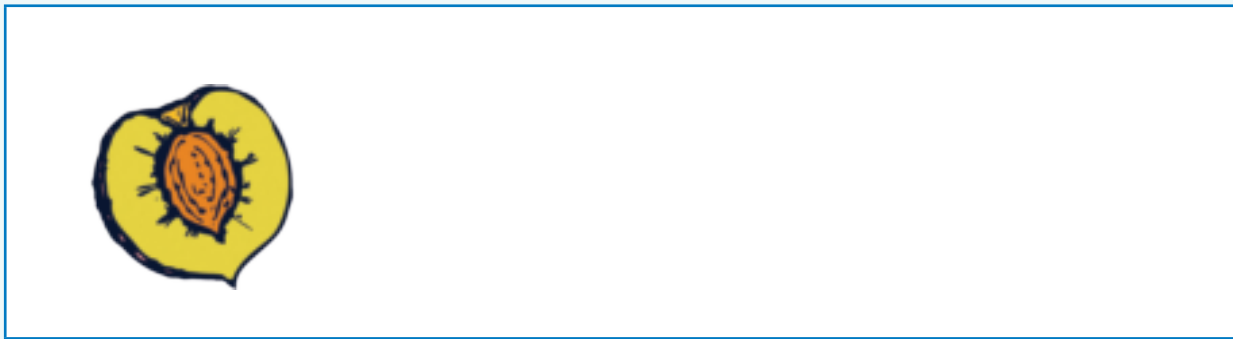
d.  $85 - 69$



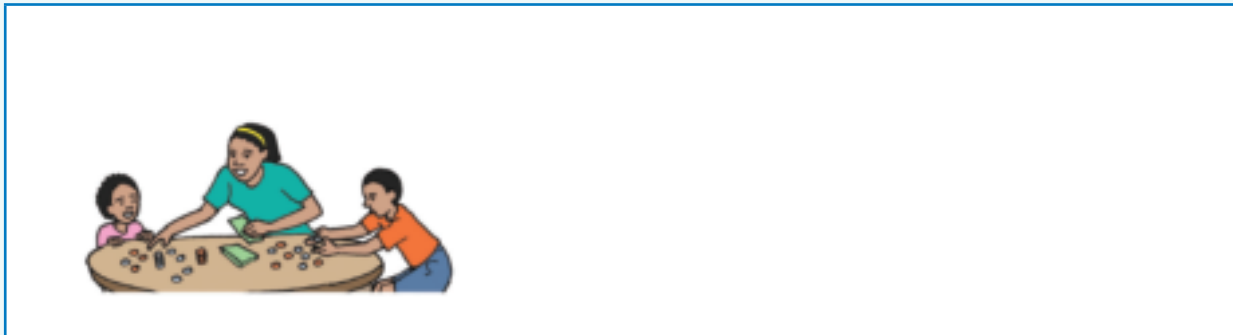
## Xi lulamise!

Ku na tindlela to tala to hlanganisa vun'we na vukhume. Hlawula ndlela leyi u yi tivaka no yi tsakela swinene ku lulamisa swiphiqo leswi. Kombisa ntirho wa wena.

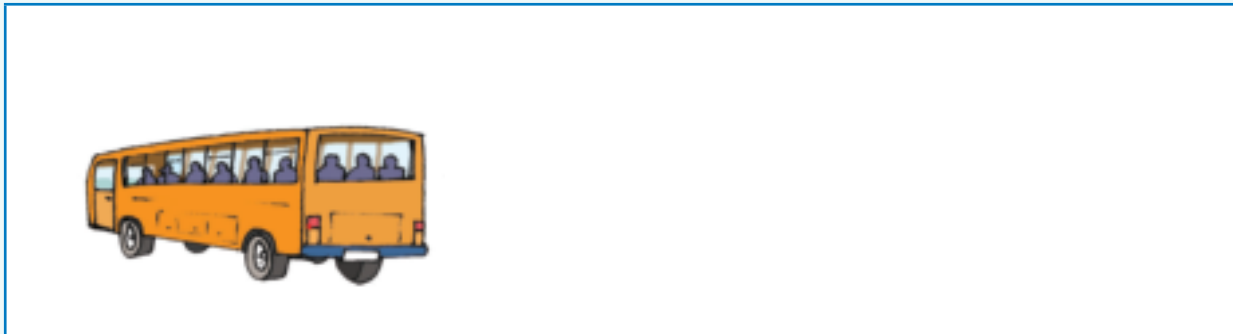
- a. Peter u sungula a kha 34 wa mapencisi kutani endzhaku a kha 67 wa mapencisi. Xana i mapencisi mangani hinkwawo ka wona?



- b. Vana va ka Malusi va hlayisa R47 swin'we. Mana wa vona u engetela R58. Xana va na mali muni sweswi?



- c. Bazi ra xikolo ri famba 88 km nimixo na 73 km nindzhenga. Xana i tikilomitara tingani hinkwato ka tona?



## Xi lulamise!



Swipfalo swa mabodhlela

Tirhisa ndlela yin'wana na yin'wana leyi u yi tsakelaka. Kombisa ntirho wa wena.



Sipho



Andile

Sipho u hlayela swipfalo swa mabodhlela swa 87. Andile u hlayela 38.  
Xana Sipho u hlayele swipfalo swin'wana swingani ku tlula Andile?



Khonsati ya xikolo



Musa



Musa u xavisa mathikithi. U na 92 ya mathikithi yo sungula hi wona. U na 67 lama saleke.  
Xana Musa u xavisile mathikithi mangani ku fika sweswi?



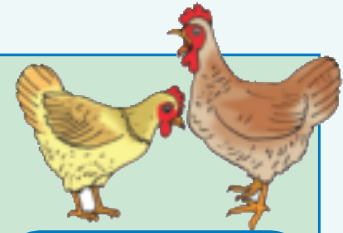
## Ku titoloveta kun'wana



Ku na 69 wa swihukwana exihahlwini xin'we na 95 eka xin'wana.

Xana ku na tihuku tingani hinkwato ka tona?

Hlaya hilaha Gugu na Aakar va ololoxaka hakona xiphiqo.



Xana wa swi tiva leswaku hikwalaho ka yini?

Maendlele ya Gugu

$$\begin{aligned} &60 + 90 + 9 + 5 \\ &= 100 + 50 + 14 \\ &= 150 + 10 + 4 \\ &= 164 \end{aligned}$$



Maendlele ya Aakar

$$\begin{aligned} &69 + 95 \\ &= 70 + 95 - 1 \\ &= 70 + 90 + 5 - 1 \\ &= 160 + 4 \\ &= 164 \end{aligned}$$



a. Vafana va hlengeleta R96 ya rendzo ra tlilasi. Vanhwanyana va hlengeleta R79. Xana va hlengeletile mali muni hinkwayo ka yona?

Tirhisa maendlele ya Gugu

Tirhisa maendlele ya Aakar

b. Xikolo xin'we xi hlengeleta 76 kg ta swikotela. Xikolo xin'wana xi hlengeleta swikotela swa 68 kg. Xana i tikg tingani ta swikotela leti swikolo leswimbirhi swi ti hlengeleteke hinkwato ka tona?

Tirhisa maendlele ya Gugu ku kambisisa.

Tirhisa maendlele ya Aakar



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

# Hlayela no khakhuleta



Ku kuma xiphemu

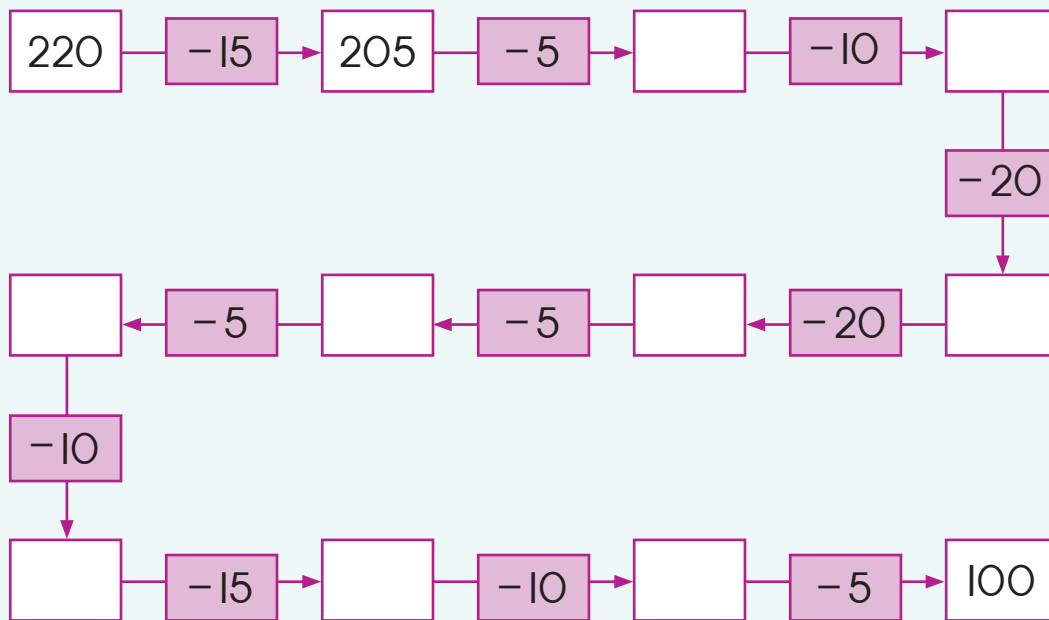
Tsala tinomboro leti sijiweke.

a.	<table border="1"><tr><td>100</td><td></td></tr><tr><td></td><td>27</td></tr></table>	100			27	b.	<table border="1"><tr><td>100</td><td></td></tr><tr><td>39</td><td></td></tr></table>	100		39		c.	<table border="1"><tr><td>100</td><td></td></tr><tr><td>43</td><td></td></tr></table>	100		43		d.	<table border="1"><tr><td>100</td><td></td></tr><tr><td>56</td><td></td></tr></table>	100		56	
100																							
	27																						
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39																							
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43																							
100																							
56																							
e.	<table border="1"><tr><td>200</td><td></td></tr><tr><td>140</td><td></td></tr></table>	200		140		f.	<table border="1"><tr><td>200</td><td></td></tr><tr><td></td><td>110</td></tr></table>	200			110	g.	<table border="1"><tr><td>200</td><td></td></tr><tr><td>135</td><td></td></tr></table>	200		135		h.	<table border="1"><tr><td>200</td><td></td></tr><tr><td></td><td>120</td></tr></table>	200			120
200																							
140																							
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135																							
200																							
	120																						



Ku susa ku suka eka 220 ku ya eka 100

Susa tinomboro eka bokisi ra pinki nkarhi wun'wana na wun'wana.  
Hi ku endlele yo sungula.



Hi leji ndlela yo kambisisa tinhlamulo ta wena!  
Sungula eka 100! Tirha u ya endzhaku eka 220.  
Kambe eka nkarhi wa sweswi, hlanganisa tinomboro!



### Mindyangu ya nharhu

Kuma 3 wa tinomboro leti hlanganaka ku va nomboro leyi faneleke ku fikeleriwa. Kambe u fanele ku landzelela nawu wa leswaku i nomboro yin'we leyi nga helaka hi 0.

Xikombiso:



### Ku hundza hi 50 no va ehansi hi 50

Tsala tinhlamulo eka rixaxa ra vumbirhi.

+50	70	125	150	81	96	122	134	111	70
	120								
-50	186	200	158	179	139	79	126	138	99
	136								



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

## Ku pima hi tisentimitara



Xana sentimitara i yikulu ku fika kwihhi?



Tinomboro eka rhula ti yimela tisentimitara.

Hi tirhisa nkomiso kumbe mfungho wa cm.

Loko u tirhisa rhula, u fanele ku sungula ku pima eka O.

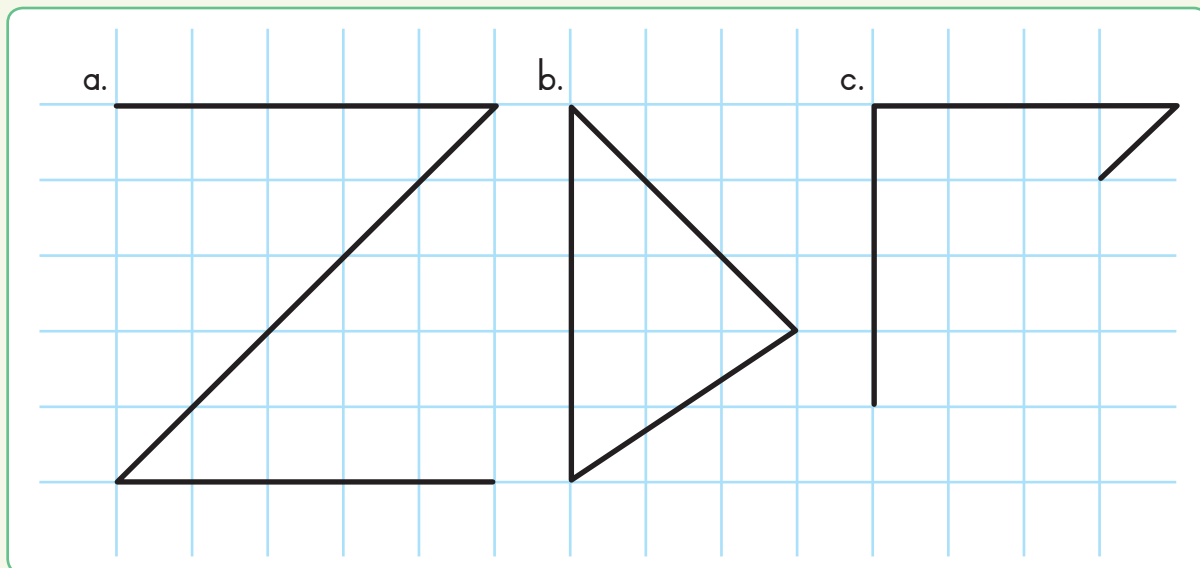
Tirhula tin'wana a ti kombi O ku fana na leyi nga eka pheji leyi.

Kuma ziro cm eka rhula. Tsala O eka rhula.

Xana IO cm yi le kwihhi eka rhula leyi? Tsala IO lahaya.



Pimanyeta kutani u pima hi nkhaqato hi rhula ya wena, ntsengo wa ku leha ka mitila leyi hi ti cm.



a. Pimanyeta <input type="text"/> cm	b. Pimanyeta <input type="text"/> cm	c. Pimanyeta <input type="text"/> cm
Pima <input type="text"/> cm	Pima <input type="text"/> cm	Pima <input type="text"/> cm



Xana layini yin'wana na yin'wana yi lehile ku fika kwihi?

Xana layini yin'wana na yin'wana yi lehile tisentimitara tingani?

Tirhisa rintihlo ra wena ku ku pfuna ku kuma nhlamulo.

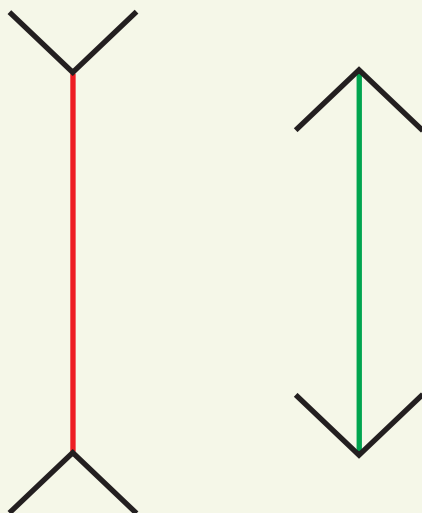
a. _____ <input type="text"/> cm	d.   <input type="text"/> cm
b. _____ <input type="text"/> cm	e. _____ <input type="text"/> cm
c. _____ <input type="text"/> cm	f. _____ <input type="text"/> cm



Xana wa tshemba?

Xana hi yihi yo leha, layini yo tshwuka kumbe layini ya rihlaza?

Xana u nga kambisisa njhani?



Leswi ndzi swi vula leswaku i norho wa tihlo. Leswi swi humelela loko mahlo ya wena ya xisiwa hi nchumu lowu hi ntiyiso wu nga riki kona. Tilayini letimbirhi ti na vulehi lebyi ringanaka. Tilayini ta ntima ti pfulekela ehandle ti endla layini yo tshwuka yi languteka yi lehile kasi tilayini ta ntima ti nghena endzeni ti endla layini ya rihlaza yi languteka yi ri yo koma.



Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_

Siku: \_\_\_\_\_

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# Thagete ya 300

Kotara ya 2



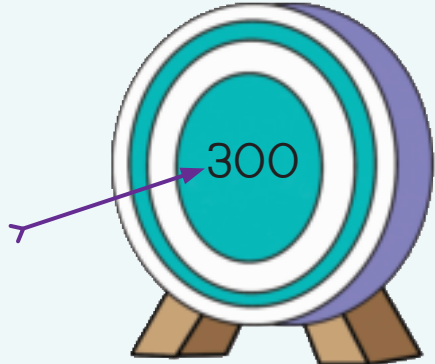
Ku hlayela no tsala vu-200

Hlayela ku suka eka 201 ku fika eka 300.

Kombetela loko u karhi u hlayela u ya emahlweni.

Kutani tata tinomboro ta wasi ku sungula.

Tsala tinomboro letin'wana hinkwato.

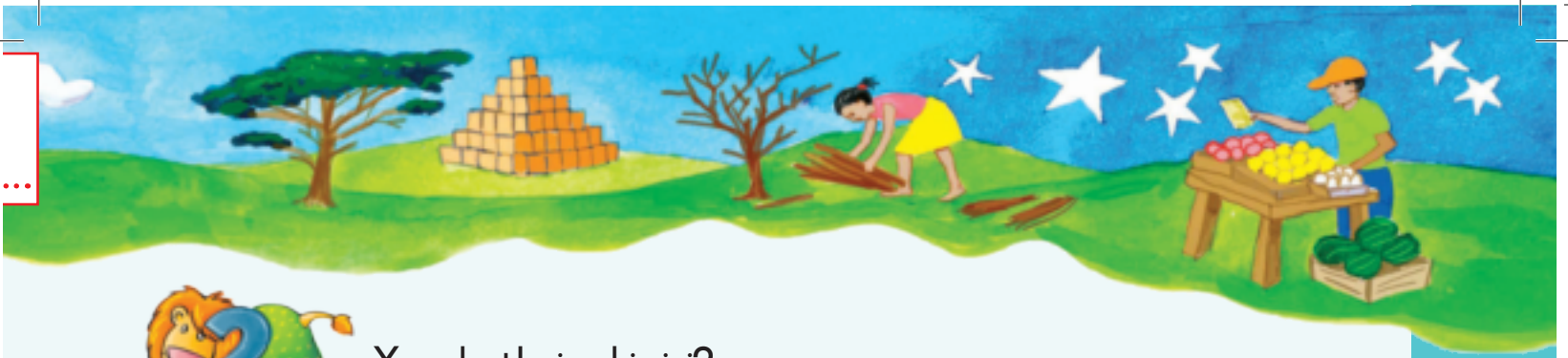


201						207			210
211									
221									
231									
								249	
			254						
				265					
		273							280
281					286				
							298		300

Tsala 10 ya tinomboro endzhaku ka 300.

300; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_





Xana ku tluriwe hi yini?

301		281					
		171				211	
					101		



Ku kombisa no ringanisa

a. Tsala tinomoro leti nghanaka eka khadi rin'wana na rin'wana.

298; 208; 301; 276; 227; 269; 311

200							
90							
8							

b. Tsala tinomoro hi nongonoko wo suka eka leyitsongo ku fika eka leyikulu swinene.

\_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_



Hi kwihi ku cinca? Tsala tinomoro leti siyiweke.

Sungula

200	+25	225		237		249

Heta

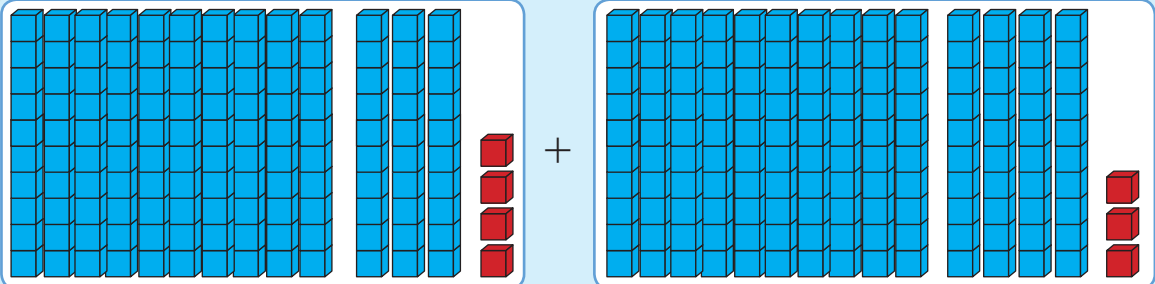
300		286		278		261

Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_

## Ku hlanganisa no susa hi vu-100



Ku tirhisa tibuloko ku hlanganisa



$$\begin{array}{r}
 100 \quad 30 \quad 4 \\
 + \quad 100 \quad 40 \quad 3 \\
 \hline
 = 200 \quad 70 \quad 7 \\
 = 277
 \end{array}$$



Landzelela maendlele mambirhi. Kombisa nhlamulo yin'wana na yin'wana hi tindlela timbirhi.

a.  $132 + 123$

Maendlele ya Busi

$$\begin{aligned}
 &= 100 + 100 + 30 + 20 + 2 + 3 \\
 &= 200 + 50 + 5 \\
 &= 255
 \end{aligned}$$



Maendlele ya Tumi

$$\begin{aligned}
 &132 + 123 \\
 &= 200 + 50 + 5 \\
 &= 255
 \end{aligned}$$



b.  $114 + 162$



c.  $276 + 148$



Xiya maendlele man'wana na man'wana. Tirha nhlayo yin'wana na yin'wana hi tindlela timbirhi.

a.  $158 - 146$

Maendlele ya Busi

$$= 100 - 100 + 50 - 40 + 8 - 6$$

$$= 0 + 10 + 2$$

$$= 12$$



Maendlele ya Tumi

$$158 - 146$$

$$= 0 + 10 + 2$$

$$= 12$$



b.  $194 - 122$

c.  $288 - 199$



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

# Thagete ya 400

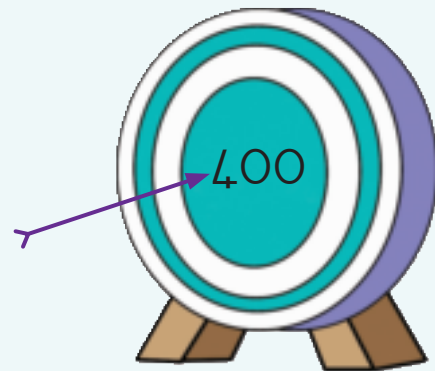


Ku hlayela no tsala vu-400

Hlayela ku suka eka 300 ku fika eka 400.

Vula tinomoro loko u ri karhi u hlayela.

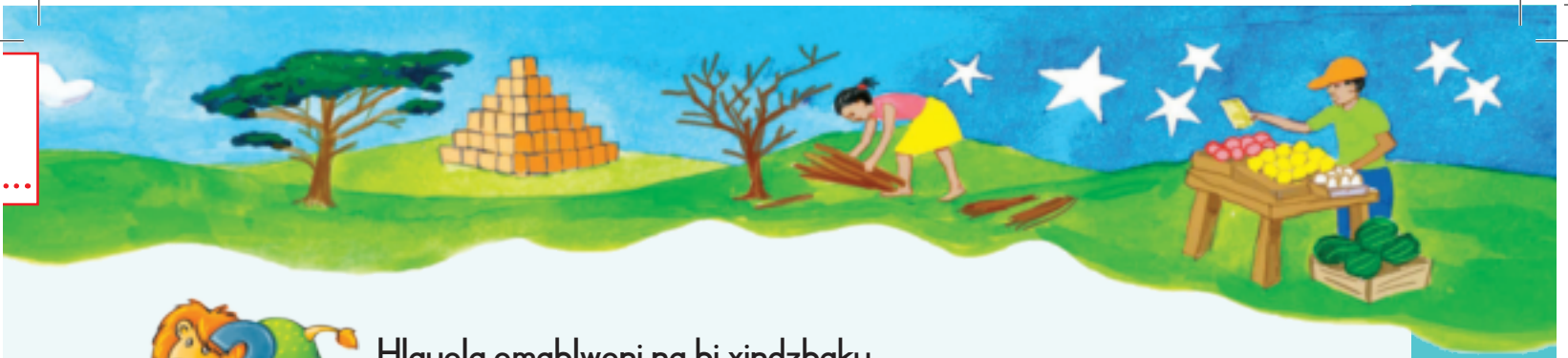
Tsala nomboro leji siyiweke eka giridi.



301									310
			315						
									330
331			335						
							249		
			365			368			
		273							
									390
									400

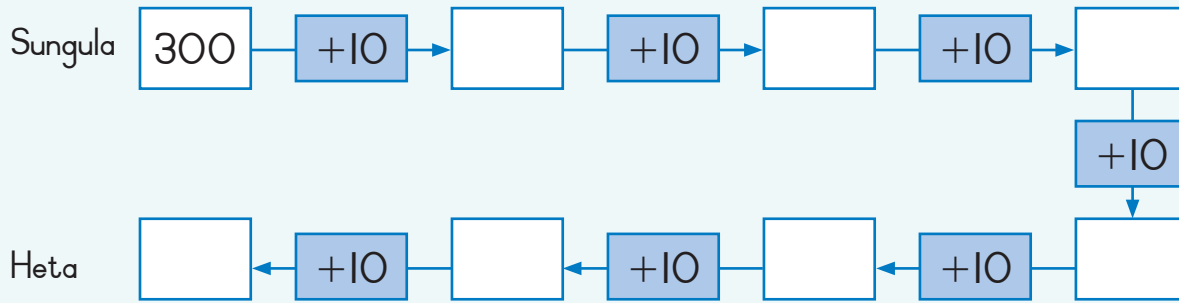
Tsala 9 ya tinomoro leti landzelaka endzhaku ka 400.

400; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_;

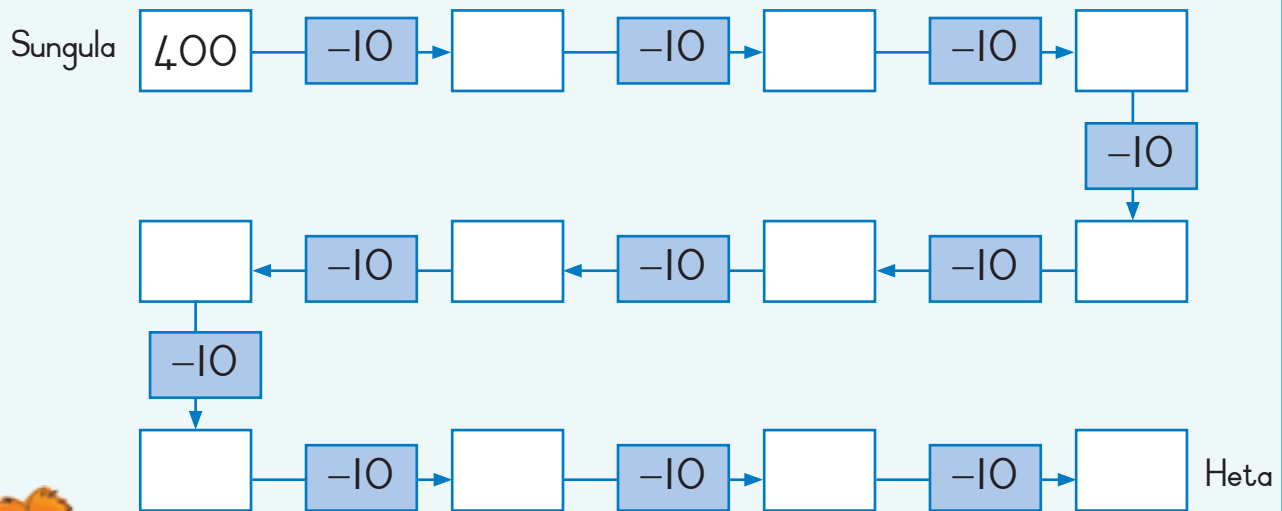


## Hlayela emahlweni na hi xindzhaku

a. Ku hlayela emahlweni ku suka eka 300 hi vukhume.



b. Hlayela ku suka eka 400 hi vukhume.



## Tsala tanihi nomboro yin'we.

$$300 + 20 + 4 = \underline{\hspace{2cm}}$$

$$300 + 10 + 5 = \underline{\hspace{2cm}}$$

$$300 + 50 + 3 = \underline{\hspace{2cm}}$$

$$300 + 70 + 7 = \underline{\hspace{2cm}}$$

$$300 + 60 + 2 = \underline{\hspace{2cm}}$$

$$300 + 90 + 9 = \underline{\hspace{2cm}}$$

$$300 + 80 + 1 = \underline{\hspace{2cm}}$$

$$300 + 40 + 8 = \underline{\hspace{2cm}}$$

Tsala tinomboro hi nongonoko wo suka eka leyitsongo ku fika eka leyikulu swinene.

\_\_\_\_\_



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

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Siku:

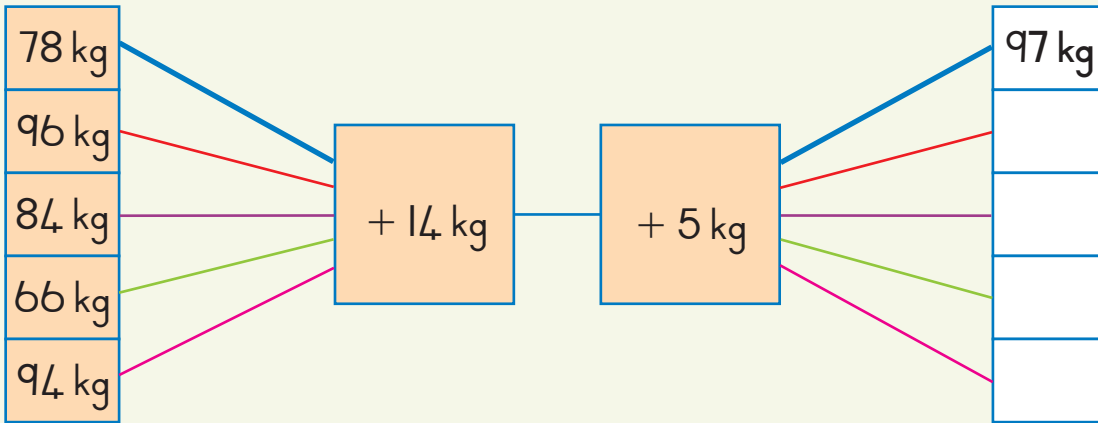
Kotara ya 2

### Ku pima



Nomboro yo hlawuleka

Hlanganisa u tlhela u tsala tinhlamulo.



Yisa eka khume ra le kusuhi kutani u hlanganisa!

Ehleketwa khwatsi!

Mhungubye 25 kg	Xibodze 98 kg	Mfenhe 59 kg	Ximangwana 88 kg	Phelikhene 9 kg

Yisa ntiko wa xiharhi xin'wana na xin'wana eka 10 kg ya le kusuhi.

\_\_\_\_\_

Tsala ntiko wa xiharhi xin'wana na xin'wana hi nongonoko wo suka eka xo vevuka ku ya eka xo tika.

\_\_\_\_\_

Pimanyeta ntsengo wa ntiko wa 5 wa swiharhi.

\_\_\_\_\_



### Hlanganisa mitiko ya swona











Ndzi nga va ndzi nga tiki ku fana na wena. Nkulukumba N'waxibodze, ndzi na ntiyiso leswaku ndzi na rivilo!



#### Magoza:



- Tirhisa mitsengo leji yisiweke eka khume ra le kusuhi.
- Pimanyisa ntiko wa swiharhi eka rixaxa rin'wana na rin'wana.
- Khakhuleta mitsengo.
- Ringanisa mitsengo mimbirhi kutani u tsala ku hambana ka yona.

	Ndza Pimanyisa	Ndza khakhuleta	Ku hambana
 + 			
 +  + 			
 +  + 			



### Ntiko wa Vusi

Kambisisa. Ringanisa. Lulamisa.

Vusi u engetela ntiko wa yena eka mitiko ya  na .

Ntiko wa vona hinkwawo i 239 kg. Xana ntiko wa Vusi i yini? Kombisa nhlamulo ya wena.



### Ntiko wa mina i yini?

Tlangani hi ntlawa. Siyerisanani ...

Hlanganisa ntiko wa wena eka ntiko wa swin'wana swa swiharhi. Tirha ntsengo. Byela ntlawa nhlamulo. U nga va kombi ntirho wa wena! Va fanele ku tirha va kuma ntiko wa wena.



Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

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Siku:

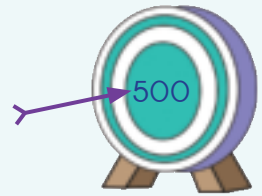
Kotara ya 2



# Thagete ya 500

Ku hlayela no tsala

400



401				405					410
411									420
	422					427			
			434						
					446				
							458		
	462								470
		473				477			
481									490
							499		500

- Hlayela ku suka eka 400. Vula tinomboro loko u ni karhi u hlayela u ya emahlweni.
- Tsala tinomboro leti siyiweke eka giridi.
- Tsala tinomboro leti landzelaka ta 9 endzhaku ka 500.

500; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

- Hlayela hi vu-2. Tsala 8 wa tinomboro leti landzelaka hi patironi ya vu-2.

400; 402; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

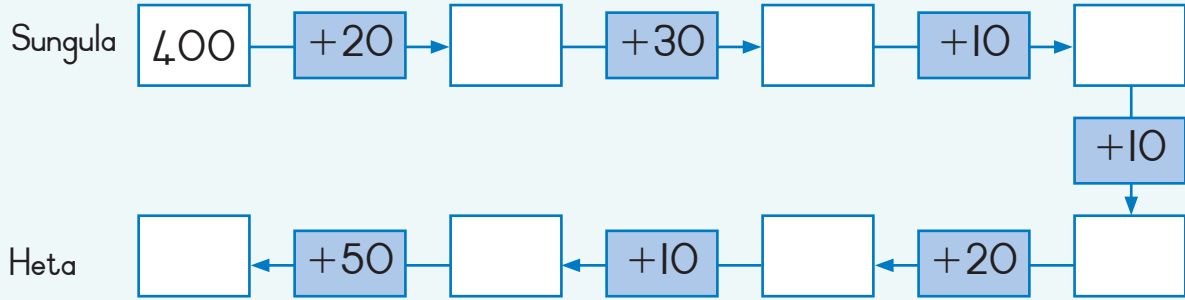
- Hlayela hi vu-5. Tsala 8 wa tinomboro leti landzelaka hi patironi ya vu-5.

400; 405; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_

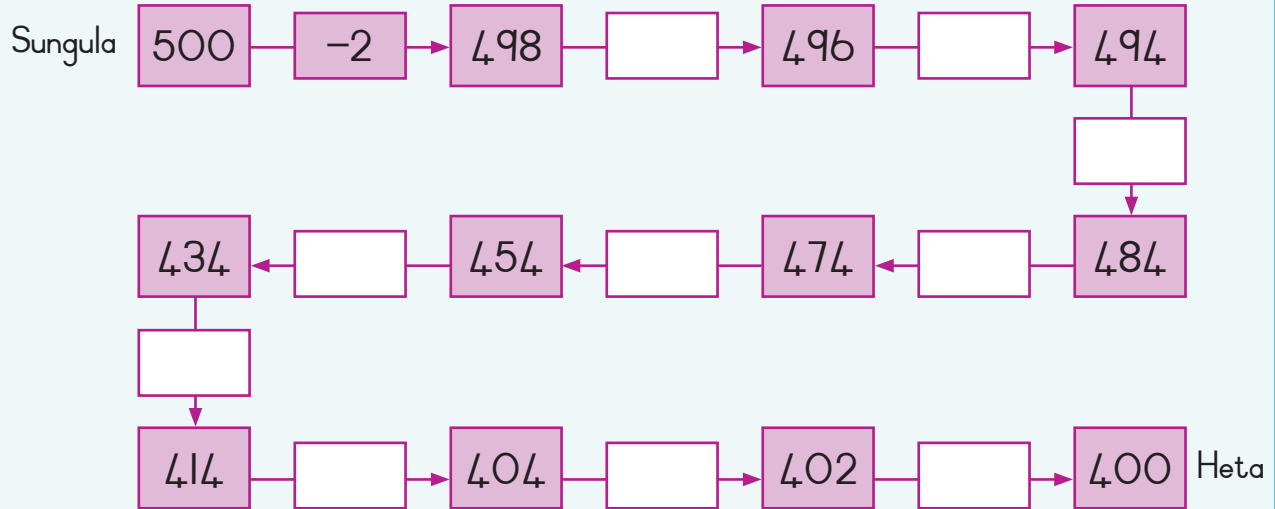


### Xana ku cinca hi kwihl?

a. Hlayela u ya endzhaku ku suka eka 400.



b. Hlayela hi xindzhaku ku suka eka 500.



### Kombisa tinomboro. Landzelela xikombiso

Kuma mitsengo. Tirhisa makhadi ya wena ya tinomboro ku kombisa ntsengo wun'wana na wun'wana.

$405 + 10$	415	$400 + 10 + 5$
$446 + 10$		
$455 + 10$		

$398 + 10$		
$424 + 10$		
$460 + 20$		



## Ku hlanganisa no susa kun'wana

Kotara ya 2

$200$ $200$ $50$ $30$ $4$ $5$	$400$ $80$ $9$	$489$
--	----------------------	-------



Hi ta tlhela hi tirhisa maendlele ya Busi na ya Tumi ku hlanganisa.

a.  $245 + 231$

Maendlele ya Busi

$$= 200 + 200 + 40 + 30 + 5 + 1$$

$$= 400 + 70 + 6$$

$$= 476$$



Maendlele ya Tumi

$$245 + 231$$

$$= 400 + 70 + 6$$

$$= 476$$



b.  $278 + 136$

c.  $265 + 148$



Hi ta tlhela hi tirhisa maendlele ya Busi na ya Tumi ku susa.

a.  $476 - 324$

Maendlele ya Busi

$$= 400 - 300 + 70 - 20 + 6 - 4$$

$$= 100 + 50 + 2$$

$$= 152$$



Maendlele ya Tumi

$$476 + 324$$

$$= 100 + 50 + 2$$

$$= 152$$

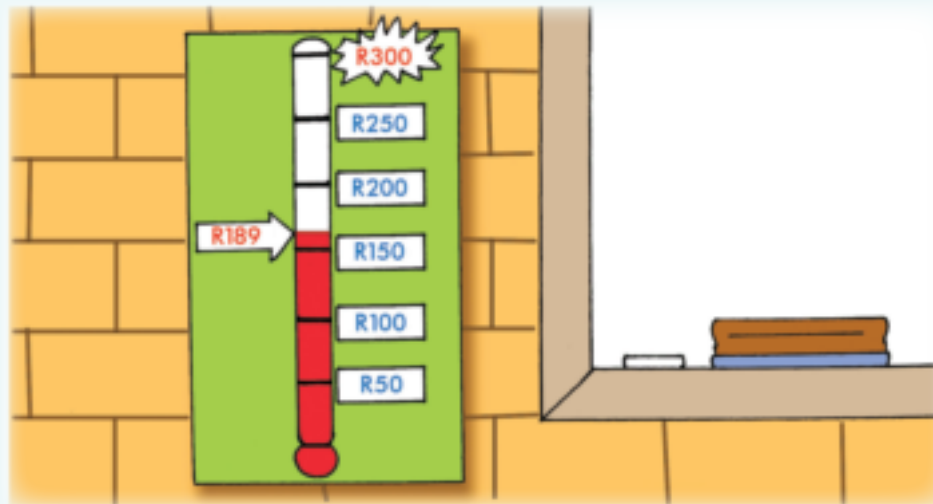


b.  $489 - 456$

c.  $482 - 161$



Ku fikelela thagete



Xiyisisa xifaniso.

Xana ku laveka mali muni ku kota ku fikelela thagete?

R

Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_



## Ntshava ya xihundla

Xana i yini vito ra ntshava yo leha ngopfu eGauteng? Tirhisa khodi ku kumisisa. Pananisa nhlamulo yin'wana etafuleni na letere leri nga eka khodi.

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

Vuthala bya tinomboro	Nhlamulo	Letera
Xikombiso: $2 \times 3 \times 3 \times 1 = \square$	18	R
$50 + 50 + 50 + 100 - 200 - 45 = \square$		
$1 + 2 + 7 + 10 + 7 + 1 - 14 = \square$		
$60 - 30 + 50 + 20 - 50 - 15 - 20 = \square$		
$3 + 2 + 7 + 1 + 2 + 1 + 3 = \square$		
$5 + 3 + 30 = 4 + 2 + 12 + \square$		
$100 - 5 - 70 = 20 + \square$		
$36 + 44 - 60 - 2 = \square$		
$10 + 15 = 14 + \square$		
$2 + 1 + 14 + 9 + 14 = 25 + \square$		
$1 \times 2 \times 2 \times 2 \times 2 = \square$		

Vito ra ntshava i



Languta! Ehleketa no hlamula!

\*  \*        \*  \*        \*  \*

1   2   3   4   5                  6   7   8   9   10                  11   12   13   14   15

- a. Xana nomboro ya 16 yi ta va ya xivumbeko xihhi?      \*
- Fungha (✓) eka lexi nga xona.
- Xana nomboro ya 18 yi ta va ya xivumbeko xihhi?      \*
- Fungha (✓) eka lexi nga xona.
- Xana nomboro ya 23 yi ta va ya xivumbeko xihhi?      \*
- Fungha (✓) eka lexi nga xona.

- b. Nomboro ya 50 yi ta va \*.
- Nomboro ya 100 yi ta va .
- Nomboro ya 28 yi ta va .
- Hi swona kumbe A hi swona?
- Hi swona kumbe A hi swona?
- Hi swona kumbe A hi swona?



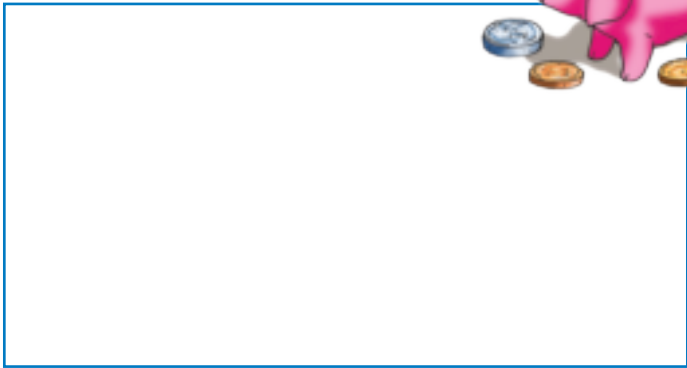
Kambisisa. Fananisa. Lulamisa.

Hi yihhi leyi nga tala?

Ku amukela mali yo longisiwa ya R2,50 hi siku hi Khotavuxika na Mawuwani.

Kumbe ku amukela R150 hi siku ra l Mhawuri.

Kombisa matirhele ya wena.

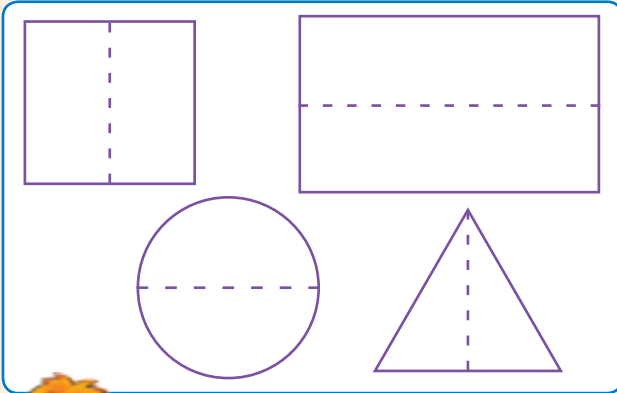


Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_

11   12   13   14   15   16   17   18   19   20

# Ndzingano

Xana u lemuka yini hi swivumbeko leswi?

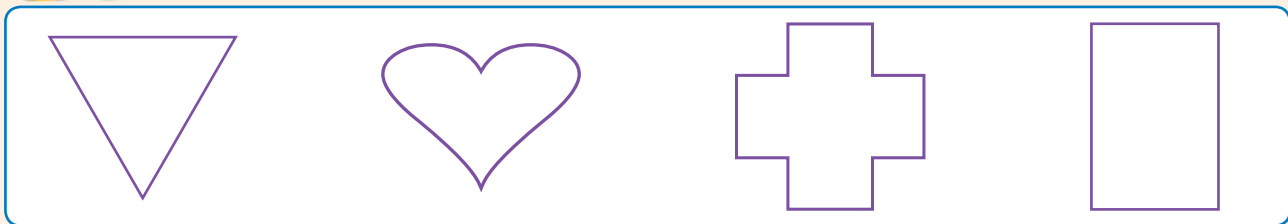


Ntila wa ndzinganiso wu avanyisa xivumbeko eka tihafu timbirhi leswaku hafu yin'wana na yin'wana yi va ntlheriselo wa xivoni wa xiphemu lexin'wana.

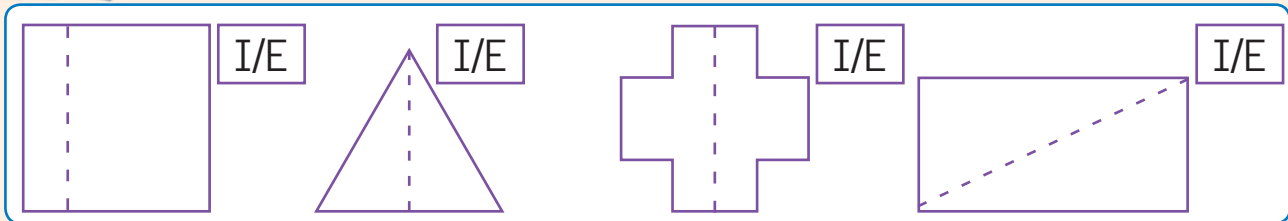
Xivumbeko xi na ndzingano loko u xi petsa eka ntila wa ndzinganiso leswaku tihafu letimbirhi ti ta yelana hi nkhaqato.



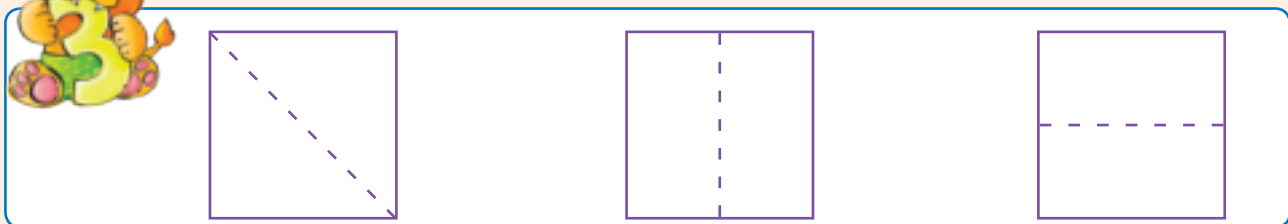
Dirowa ntila wa ndzinganiso eka xivumbeko xin'wana na xin'wana?

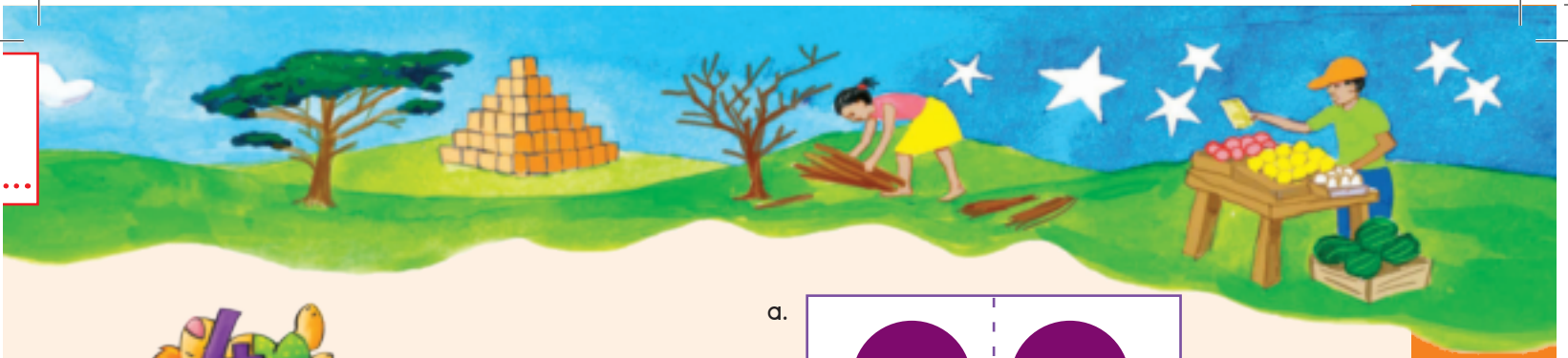


Xana ntila wa mathonsi i ntila wa ndzingano kumbe a hi wona? Tsala xirhendzevutana eka Ina (I) kumbe E -e (E)



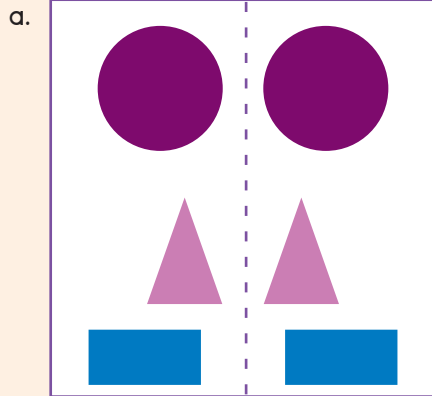
Xana lowu i ntila wa ndzinganiso? Hikwalaho ka yini?



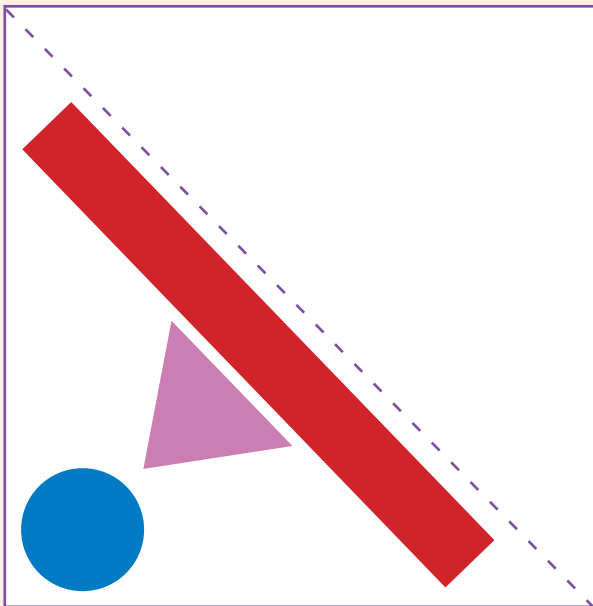


Dirowa swivumbeko ku endla leswaku xifaniso xi va na ndzingano.

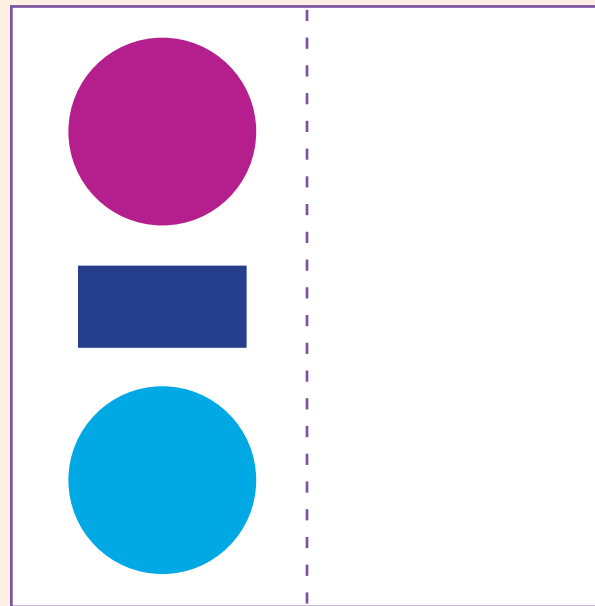
Hi ku endlele xo sungula.



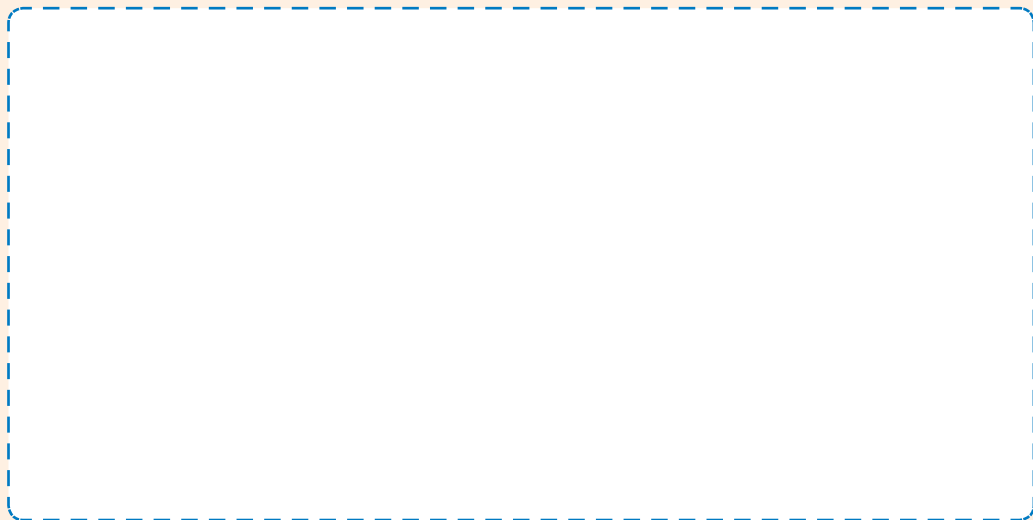
b.



c.



Tumbuluxa khapete ya wena ya ndzingano hi ku tirhisa swivumbeko.



49

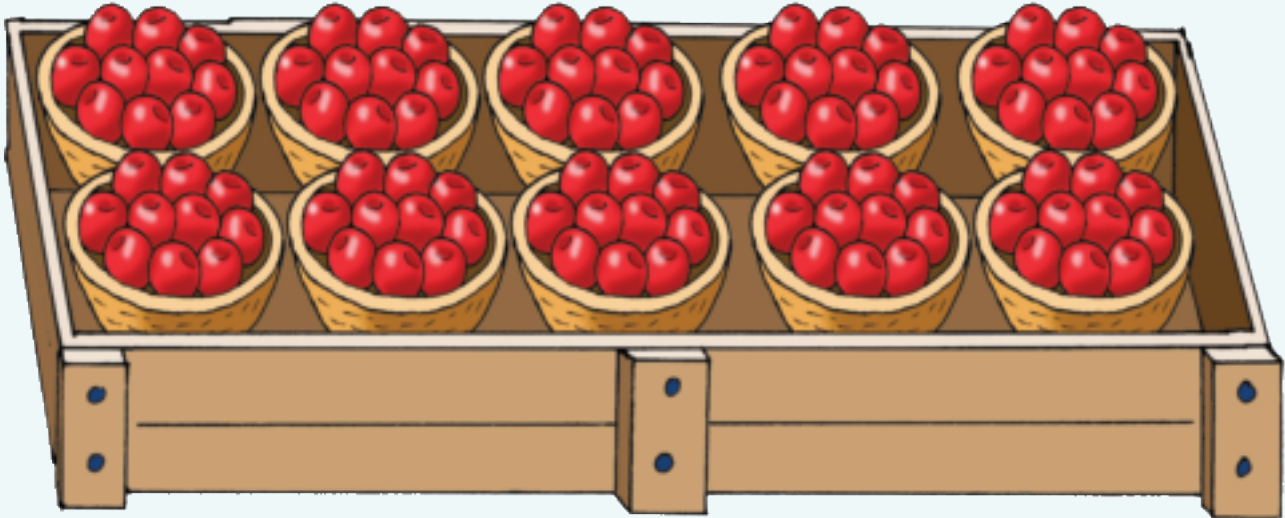
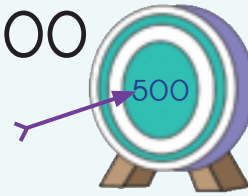
Siku:

Kotara ya 2



Ku hlayela maapula

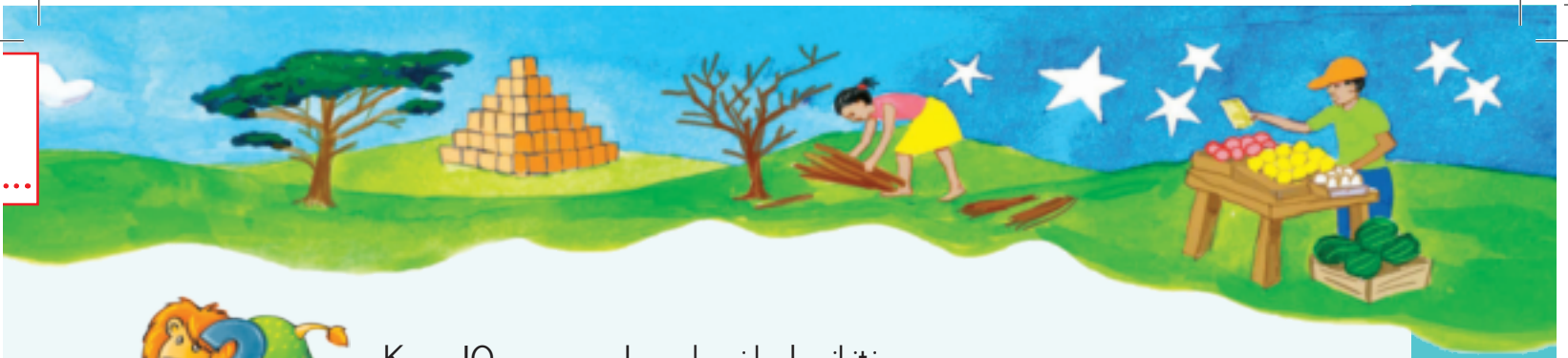
Ku aka ku fika eka 500



Hetisa u tlhela u andzisa

1 khireti yi khoma _____ wa maapula.	$1 \times 10 = 10$
3 wa tikhireti ti khoma _____ wa maapula.	$3 \times 10 =$
5 wa tikhireti ti khoma _____ wa maapula.	
4 wa tikhireti ti khoma _____ wa maapula.	
2 wa tibasikiti ti khoma _____ wa maapula.	

1 khireti yi khoma <b>100</b> wa maapula.	2 wa tikhireti ti khoma _____ wa maapula.
3 wa tikhireti ti khoma _____ wa maapula.	4 wa tikhireti ti khoma _____ wa maapula.
5 wa tikhireti ti khoma _____ wa maapula.	2 wa tikhireti ta hafu ti khoma _____ wa maapula.

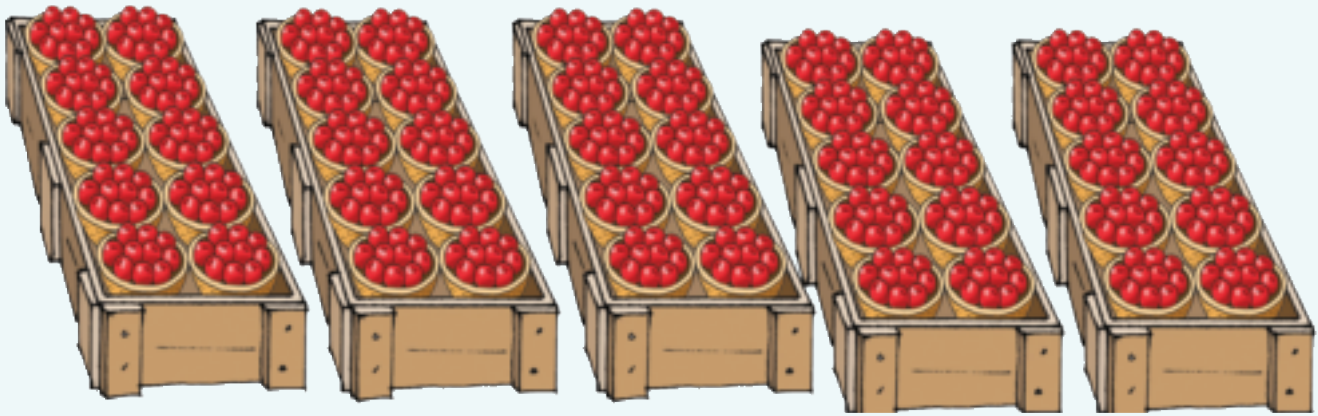


Ku na 10 wa maapula endzeni ka basikiti.

Ku na \_\_\_\_\_ wa tibasikiti eka khireti yin'we.

Ku na \_\_\_\_\_ wa maapula eka khireti yin'we.

Xana ku na maapula mangani hinkwawo ka wona? \_\_\_\_\_



Ku khakhuleta, ku kombisa no tsala

300

40

5

Sungula hi ku tirhisa makhadi ya tinomboro ku kombisa ntsengo wun'wana na wun'wana. Kutani tsala nomboro.

3 wa tikhireti + 4 wa tibasikiti + 5 wa maapula = 345 wa maapula

4 wa tikhireti + 5 wa tibasikiti + 7 wa maapula = \_\_ wa maapula

5 wa tikhireti + 2 wa tibasikiti + 3 wa maapula = \_\_ wa maapula

4 wa tikhireti + 7 wa tibasikiti + 2 wa maapula = \_\_ wa maapula



11 12 13 14 15 16 17 18 19 20

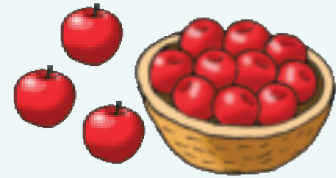
## Ku andzisa no avanyisa (10)





Ku hlayela maapula

Tata tafula.

Xana i tibasikiti tingani leti nga na maapula?

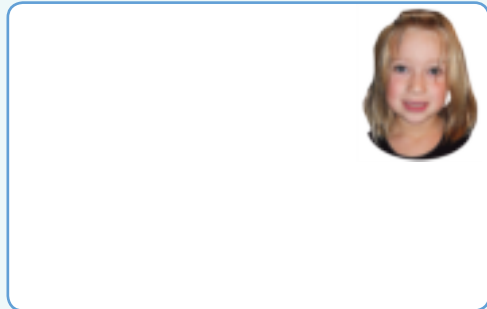
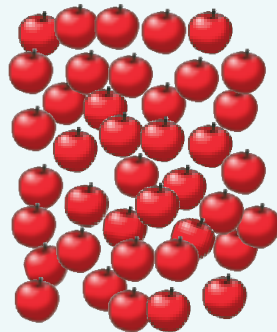


Maapula 	10	20	30	40	50
Tibasikiti 	1	2			
Nhlayo ya $\div$					$50 \div 10 = 5$
Nhlayo ya $\times$					$5 \times 10 = 50$



Avanyisa maapula exikarhi ka vana. Dirowa xifaniso. Tsala nhlayo ya ku avanyisa na ya ku andzisa ku kambisisa nhlamulo ya wena.

a.



Kambisisa  
tinhlamulo ta wena

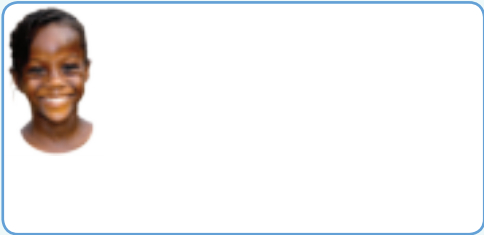
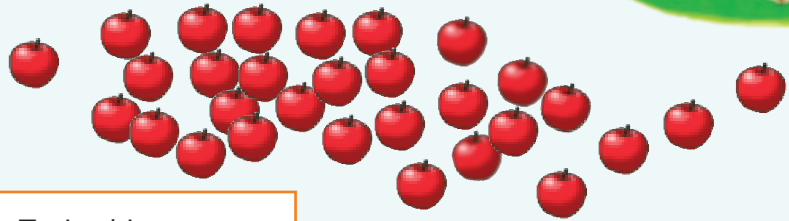
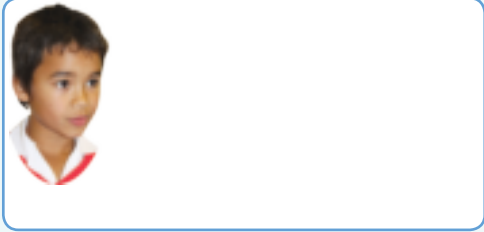
$$\square \div \square = \square$$

$$\square \times \square = \square$$





b.

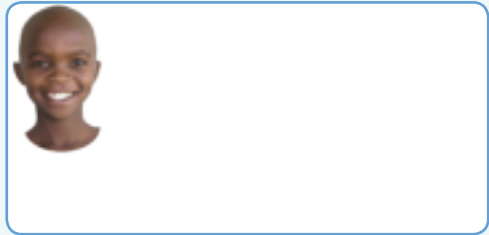


Tsala nhlayo ya  $\div$

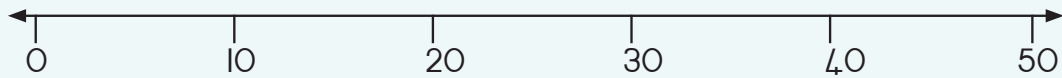
Tsala nhlayo ya

$\times$  ku kambisisa

tinhlamulo ta wena



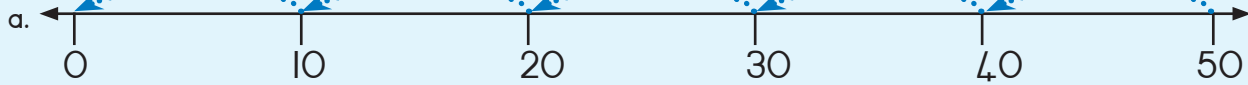
Tirhisa tinomboro ku endla swivulwa swa wena swa tinomboro.



Xikombiso

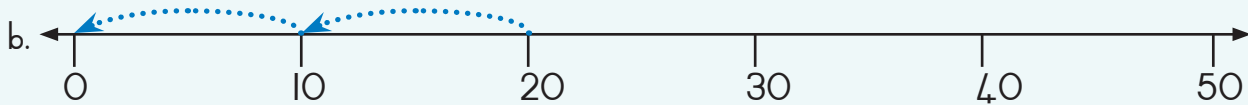
$\div$   $40 \div 10 = 4$

$\times$   $4 \times 10 = 40$



$\div$

$\times$



$\div$

$\times$



$\div$

$\times$



Tsala nomboro leyi nga yitsongo hi 10 na leyi nga yikulu hi 10 eka nomboro leyi nyikiweke.

<input type="text"/> , 460, <input type="text"/>	<input type="text"/> , 390, <input type="text"/>	<input type="text"/> , 500, <input type="text"/>
--	--	--

Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_





## Hlayela hi vu-2

Ku hlayela emahlweni na hi xindzhaku hi vu-2

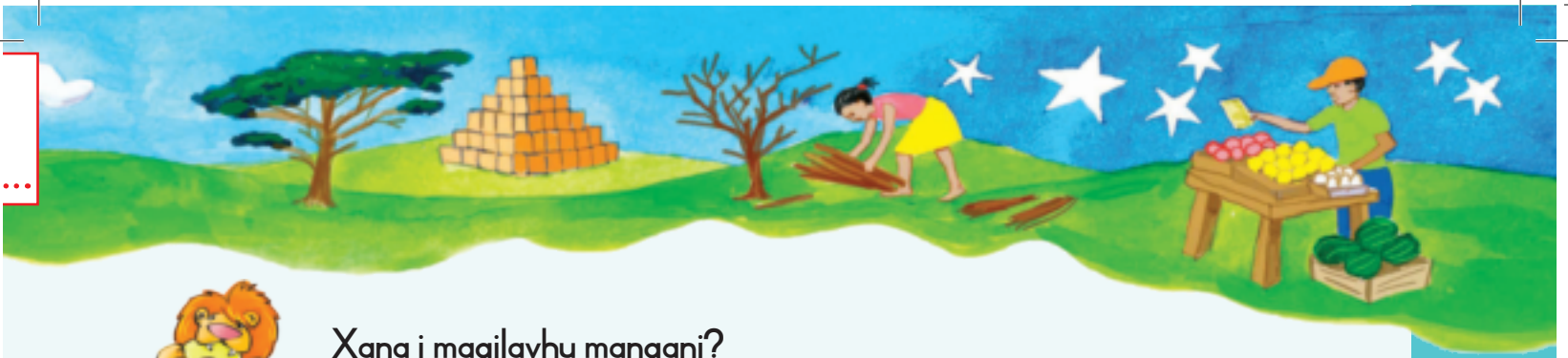
- a. 232; 234; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; 242; \_\_\_\_\_; \_\_\_\_\_; 248
- b. 500; \_\_\_\_\_; 496; \_\_\_\_\_; \_\_\_\_\_; 490; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_
- c. 460; \_\_\_\_\_; \_\_\_\_\_; 400; \_\_\_\_\_; 360; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_
- d. 341; \_\_\_\_\_; 361; \_\_\_\_\_; \_\_\_\_\_; 391; \_\_\_\_\_; 411; \_\_\_\_\_; \_\_\_\_\_



Tiphere ta magilavhu













- a. Xana ku na tiphere tingani ta magilavhu eka rixaxa rin'we? \_\_\_\_\_
- b. Xana ku na magilavhu yo famba hi rin'we mangani eka rixaxa rin'we? \_\_\_\_\_
- c. Xana ku na tinxaxa tingani? \_\_\_\_\_
- d. Xana ku na magilavhu mangani hinkwawo ka wona? \_\_\_\_\_
- e. Kombisa leswi u swi tirhiseke xiswona.
- f. Tsala nhlamulo ya wena tanihi xivulwa xa tinomboro.  
 \_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_



Xana i magilavhu mangani?

Tsala ematafuleni.

a.

Tiphere		 1	 10	 5	 50	 4	 40	 3	 30	 100
Magilavhu		2								

b.

Gilavhu rin'we	20	21	70	73
Tiphere leti nga endliwaka				
Magilavhu ya rin'we rin'we lama saleke				



Hlayela hi vumbirhi

a. Hi yih nomboro leyi nghanaka exikarhi?

264, _____, 268	391, _____, 395	414, _____, 410
-----------------	-----------------	-----------------

b. Tsala tinomboro timbirhi leti landzelaka.

373, 375, <u>377</u> , 379	480, 482, _____, _____	262, 264, _____, _____
----------------------------	------------------------	------------------------

c. Tsala tinomboro timbirhi leti landzelaka.

346, 348, _____, _____	415, 417, _____, _____	297, 299, _____, _____
------------------------	------------------------	------------------------

Teacher:

Sign:

Date:



### Ku kunguhata xirhapa



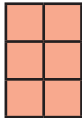
Manana Mabena u na tithayele to saseka.

U ti tirhisa ku phejivha ndhawu exirhapani xa yena.

Ku na tithayele ta 6 wa swikwere ta sayizi yin'we.

Xana ndzi ta ti veka njhani?

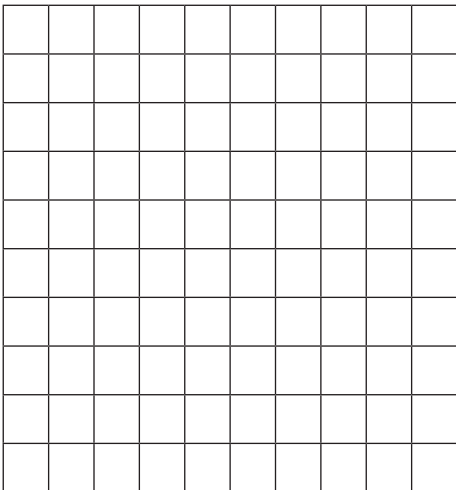
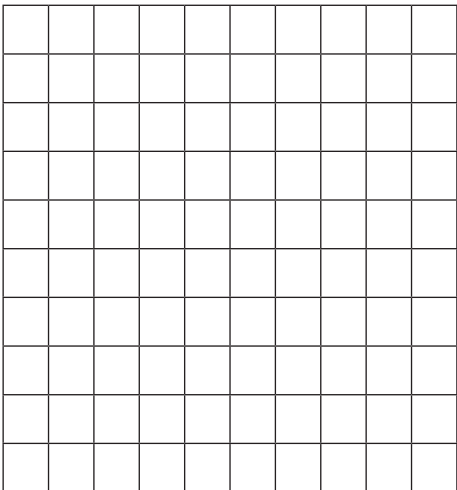


Ndzi endla 1 rixaxa hi 6 wa tithayele.	Ndzi nga endla 2 wa tinxaxa hi 3 wa tithayele eka rixaxa.	Ndzi nga endla 3 wa tinxaxa hi 2 wa tithayele eka rixaxa rin'wana na rin'wana.
		
$6 \times 1 = 6$	$3 \times 2 = 6$	$2 \times 3 = 6$

### Sweswi i nkarhi wa wena!

Dzihata tibuloko ku kombisa leswi u nga vekisaka xiswona tithayele ta 8 na 9 wa swikwere.

Tsala swivulwa swa tinomoro swa xifaniso xin'wana na xin'wana.

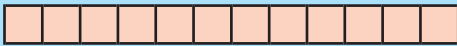
8 wa swikwere	9 wa swikwere
	



## Veketela 12 wa tithayele

Thabo u na tithayele ta 12 wa swikwere leti a faneleke ku phiyivha etlhelo ka yindlu ya yena. N'wi pfune ku kuma tindlela hinkwato leti a nga endlaka leswi hatona. Tsala xivulwa xa tinomboro xa ndlela yin'wana na yin'wana.

Xikombiso:



$$1 \times 12 = 12$$

$$12 \times 1 = 12$$



## Veketela 24 wa tithayele

- Tirhisa giridi leyi nga eka xitsema xa 2.
- Dzwihata 24 wa tibuloko hi tindlela to hambana.
- Tsala swivulwa swa tinomboro ku yelanisa xifaniso xin'wana na xin'wana.



## Ndzi nga andzisa!

$12 = 2 \times \square$	$3 \times \square = 12$	$9 = \square \times 3$
$6 = 3 \times \square$	$\square \times 3 = 12$	$24 = 3 \times \square$

Teacher: \_\_\_\_\_

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

## Hi vu-5 ku fika eka 500



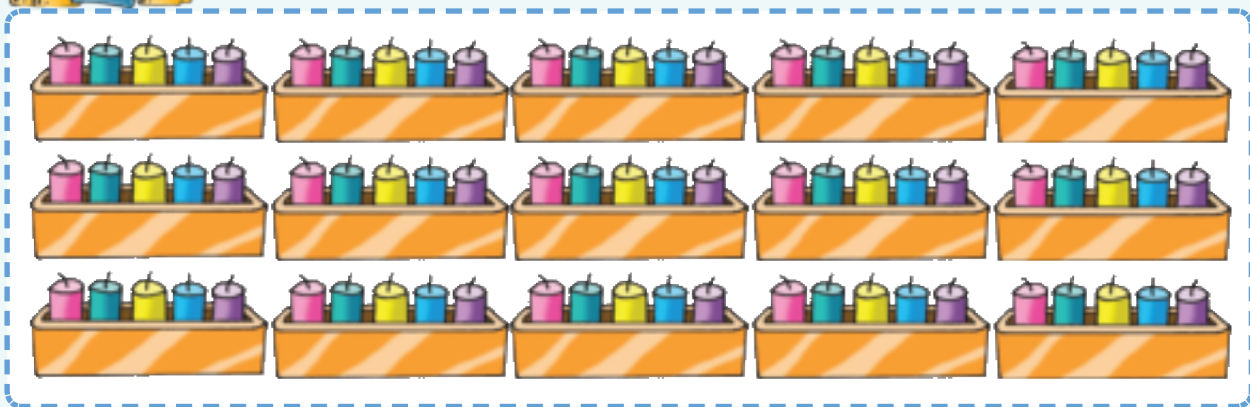
Ku tiva vu-5 bya wena

Tata tinhlamulo.

	1	2	3	4	5	6	7	8	9	10
× 5	5									



Ku hlayela makhandhlela



- Ku na makhandhlela mangani eka bokisi rin'wana na rin'wana? \_\_\_\_\_
- Ku na mabokisi mangani eka rixaxa rin'wana na rin'wana? \_\_\_\_\_
- Ku na makhandhlela mangani eka rixaxa rin'wana na rin'wana? \_\_\_\_\_
- Ku na makhandhlela mangani hinkwawo ka wona? \_\_\_\_\_



Kombisa nhlamulo ya wena

Gwajula (✓) swivulwa swa tinomboro leswi kombisaka ntsengo wa makhandhlela.

a.  $5 \times 3 \times 3 = \square$  b.  $15 \times 3 = \square$  c.  $3 \times 5 \times 5 = \square$  d.  $15 \times 5 = \square$

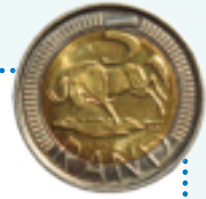


### Ku hlayela emahlweni na hi xindzhaku hi vu-5

- a. 85; \_\_\_\_\_; \_\_\_\_\_; 70; \_\_\_\_\_; \_\_\_\_\_; 55; \_\_\_\_\_; \_\_\_\_\_
- b. 240; \_\_\_\_\_; \_\_\_\_\_; 255; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; \_\_\_\_\_; 280
- c. 405; \_\_\_\_\_; 395; \_\_\_\_\_; \_\_\_\_\_; 380; \_\_\_\_\_; \_\_\_\_\_; 365; \_\_\_\_\_



### Ku hlengeleta tikhoyini ta R5



Vana va hlengeleta tikhoyini ta R5. Xana va lava tikhoyini ta R5 tingani ku endla:

$R5 \div R5$ = 1 khoyini	$R10 \div R5$ = 2 wa tikhoyini	R15? _____	R20? _____	R25? _____
R30? _____	R35? _____	R40? _____	R45? _____	R50? _____

$2 \times R5 =$  R

$4 \times R5 =$  R

$3 \times R5 =$  R

$6 \times R5 =$  R

Xana wa yi vona patironi?



### Ku andzisa hi vu-5

Xikombiso:  $1 \times 5 = 5$ ;  $11 \times 5 = 55$ ;  $21 \times 5 = 105$

Ehleketa khwatsi! Aka ehenhla ka leswi u swi tivaka!

1	2	3	4	5	6	7	8	9	10
5	10								
11	12	13	14	15	16	17	18	19	20
55									



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

Siku: .....

### Ku tirha hi nkarhi

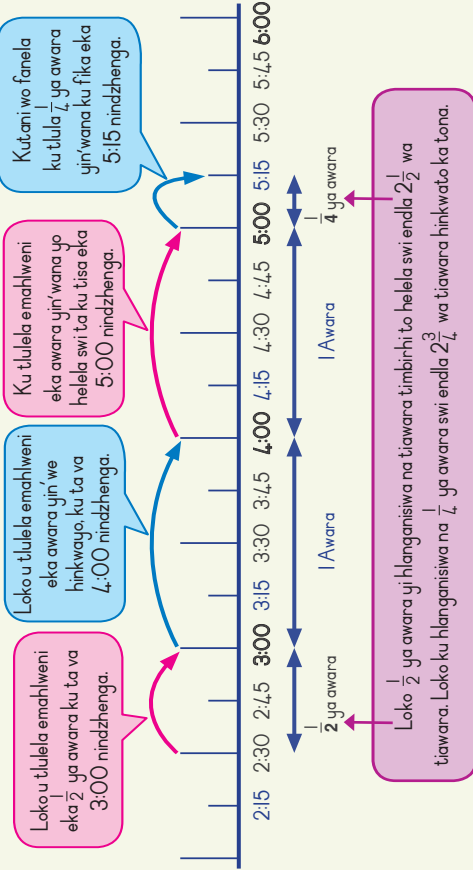
#### Dirowa minkarhi

Hafu ku bile awara ya 5	Kotara ku ya eka awara ya khumen'we	Kotara ku bile awara ya 12
4:30	6:15	4:30

#### Xiphiao xa nkarhi

Mana wa Nomsa u suka ekaya hi 2:30 nindzhenga. U vuya hi 5:15 nindzhenga. Xana u va a humile nkarhi wo tanhi kwih?

Hi nga tirhisa nxaxamelo wa minkarhi ku swi tirha. Vekela nint'ho na wena eka 2:30, nkarhi lowu ku nga wona sweswi.



### Swiphiao swa nkarhi

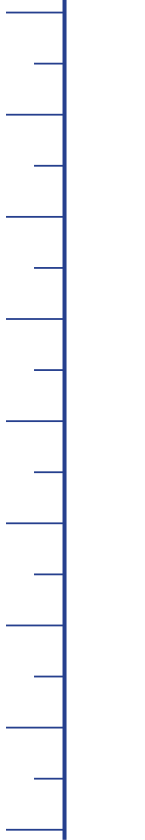
Kambisisa, Ringanisa, Lulamisa.

Lulamisa xiphiao xin'wana na xin'wana. Tirhisa mixaxamelo ya minkarhi ku ku pfuna.

a. Sasavona u endzela tata wakwe etlilinki hi 15:4,5 nindzhenga.

U suka hi 17:15 nindzhenga.

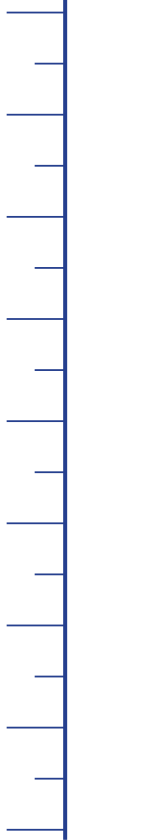
Xana u va a endzile nkarhi wo tanhi kwih?



b. Musa u ya ephakeni hi 10:4,5 nimixo.

U vuya ekaya hi 12:30 ninhlekanhi.

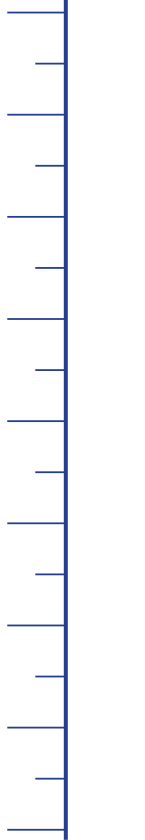
Xana u va a fambile nkarhi wo tanhi kwih?



c. Tumi u sungula ku hlaha hi 13:15 nindzhenga.

U heta hi 14:4,5 nindzhenga.

Xana Tumi u hlaha nkarhi wo tanhi kwih?



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

Siku: .....



### Hlayela hi vu-3 na vu-4

Mapoto ya 3 wa milenge



Hlanganisa kutani u tsala nhlamulo

- Xana ku na mapoto mangani erixaxeni? \_\_\_\_\_
  - Xana ku na milenge yjngani erixaxeni? \_\_\_\_\_
  - Xana ku na tinxaxa tingani ta mapoto? \_\_\_\_\_
  - Xana ku na milenge yjngani hinkwayo ka yona? Kombisa leswi u swi tirhiseke xiswona.
- Fungha (✓) swivulwa swa tinomboro laha hansi leswi kombisaka ntsengo.
- $21 \times 7 = \square$     $3 \times 7 \times 3 = \square$     $3 \times 4 \times 2 = \square$     $21 \times 3 = \square$



Xana ku na milenge yjngani?

Ehleketi hi xihatla  
Ehleketi khwatsi.

1 poto	3	ya milenge	10 wa mapoto	<input type="text"/>	ya milenge	5 wa mapoto	<input type="text"/>	ya milenge
2 wa mapoto	<input type="text"/>	ya milenge	15 wa mapoto	<input type="text"/>	ya milenge	12 wa mapoto	<input type="text"/>	ya milenge
5 wa mapoto	<input type="text"/>	ya milenge	13 wa mapoto	<input type="text"/>	ya milenge	14 wa mapoto	<input type="text"/>	ya milenge

### Milenge ya matafula



- Xana ku na matafula mangani erixaxeni? \_\_\_\_\_
- Xana ku na milenge yjngani erixaxeni? \_\_\_\_\_
- Xana ku na tinxaxa ta matafula tingani? \_\_\_\_\_
- Xana ku na milenge yjngani hinkwayo ka yona? Kombisa leswi u swi tirhiseke xiswona.



Efemeni

Muvatili u endla matafula. U sungula hi ku endla milenge.



U endlile 48 ku fikela sweswi. Xana a nga kota ku endla matafula mangani?

Xana ku laveka milenge yjin'wana yjngani leswaku a ta kota ku endla tafula rin'wana?



Hetisa giridi hi ku tata tinhlamulo

$\times 3$	2	3	4	5	8	10	11	12
$\times 4$	6							
	8							

Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_



Siku: .....

### Hlayela hi vu -50

N'wana un'we, nkumba wun'we!

Xana ku na vana vangani? Pimanyisa, kutani u hlayela.



**Nkumba wo nyika ntshembo**  
Kufumeta vana va hina  
NPO 123-098



Vana hinkwavo exifanisweni va amukela nkumba.

Xana ku na vana vangani? \_\_\_\_\_

Pimanyisa	Hlayela	Fananiisa

Xana ku na vafana vangani 😊? \_\_\_\_\_ Xana ku na vanhwanyana vangani 😊? \_\_\_\_\_

Xana va hakela mali muni?

Gwazi u xava 2 ya

U hakela R

Manana Chauke u xava 5 ya

U hakela R

Mavhengele ya Thembi

Va hakela R

ya xava 20 ya

**Nyikela sweswi!**  
R50 ya nkumba wu 1



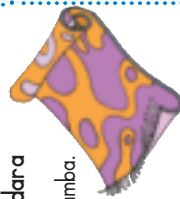
5	ya R50 = R250	10	ya R50 = R500
4	ya R50 = R_____	15	ya R50 = R_____
3	ya R50 = R_____	6	ya R50 = R_____
7	ya R50 = R_____	12	ya R50 = R_____
8	ya R50 = R_____	9	ya R50 = R_____

Xana swi ta teka nkarhi wo tanihi kwihl? Tihisa khalendara

Tihlasi ya gir-edi ya 3 yj hlengeleta mali ku kota ku xava 4, ya mikumba.

Va hlengeleta R5 hi siku ku ringana 5 wa masiku ya vhiki.

Xana va fanele ku kuma mavhiki mangani leswaku va kota ku hlengeleta mali ya mikumba?



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

Siku: .....

### Swiphemu: Tihafu na tikotara

Avanyisa tibolo hi ku ringana exikarhi ka mabokisi.

Xana ku na tibolo tingani eka bokisi rin'wana na rin'wana?	Xana ku na tibolo tingani eka bokisi rin'wana na rin'wana?
Xana ku na tibolo tingani ebokisini ra xivunguvungu?	Xana ku na tibolo tingani ebokisini ra xivunguvungu?
I xiphemu muni lexi nga ebokisini ra xivunguvungu?	I xiphemu muni lexi nga ebokisini ra xivunguvungu?



Languta swifaniso kutani u hlamula swivutiso.

Xana u hlayele swirhendzevutana swingani?	Xana u hlayele swirhendzevutana swingani?
Xana $\frac{1}{2}$ ya swirhendzevutana i jini?	Xana $\frac{1}{2}$ ya swirhendzevutana i jini?
Xana $\frac{2}{4}$ ya swirhendzevutana i jini?	Xana $\frac{2}{4}$ ya swirhendzevutana i jini?
Xana $\frac{3}{4}$ ya swirhendzevutana i jini?	Xana $\frac{3}{4}$ ya swirhendzevutana i jini?
Xana $\frac{4}{4}$ ya swirhendzevutana i jini?	Xana $\frac{4}{4}$ ya swirhendzevutana i jini?



Khalaria  $\frac{1}{2}$  ya xivumbeko xin'wana na xin'wana.

Khalaria  $\frac{1}{4}$  ya xivumbeko xin'wana na xin'wana.

Khalaria  $\frac{2}{4}$  ya xivumbeko xin'wana na xin'wana.

Khalaria  $\frac{3}{4}$  ya xivumbeko xin'wana na xin'wana.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

### Xiya switiripi swa swiphemu.



- Xana i tihafu ( $\frac{1}{2}$ ) tingani leti vumbaka xiheri xin'we?
- Xana i tikotara ( $\frac{1}{4}$ ) tingani leti vumbaka xiheri xin'we?
- Xana i tikorata ( $\frac{1}{4}$ ) tingani leti vumbaka hafu yjin'we?

b. Languta tidajigramu kutani u tsala xiphemu xa xi yenge lexi dzwihatiweke

	<input type="text"/>		<input type="text"/>
	<input type="text"/>		<input type="text"/>
	<input type="text"/>		<input type="text"/>

c. Hi xhi xiphemu lexi nga lexikulu,  $\frac{1}{2}$  kumbe  $\frac{1}{4}$ ?

Teacher:

Sign:

Date:

Siku: .....

### Swiphemu: Tihafu, xa-nharhu na xa-ntsevu

A vanjisa swithinana (tisilindara) hi ku ringana exikarhi ka mabokisi.

12		
Ntsengo wa tibalo: Xana ku na tibolo tingani ebokisini ra xivunguvungu?	6	
I xiphemu muni lexi nga ebokisini ra xivunguvungu?	$\frac{1}{2}$	



Languta swifaniso kutani u hlamula swivutiso.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Xana u hlalele swihendzevutana swingani?

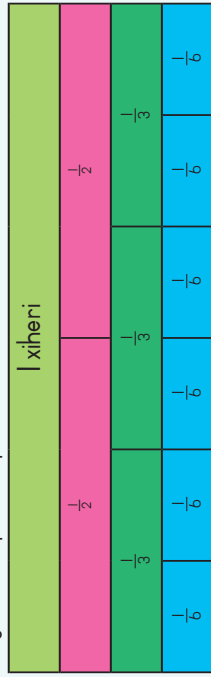
- Xana  $\frac{1}{2}$  ya swihendzevutana i yini?
- Xana  $\frac{2}{3}$  ya swihendzevutana i yini?
- Xana  $\frac{3}{3}$  ya swihendzevutana i yini?
- Xana  $\frac{1}{3}$  ya swihendzevutana i yini?
- Xana  $\frac{2}{6}$  ya swihendzevutana i yini?
- Xana  $\frac{3}{6}$  ya swihendzevutana i yini?
- Xana  $\frac{4}{6}$  ya swihendzevutana i yini?
- Xana  $\frac{5}{6}$  ya swihendzevutana i yini?



- Kombisa hafu yin'we ehuleni. Leswi swi ringana na \_\_\_\_ cm.
- Kombisa n'we xa-nharhu ehuleni. Leswi swi ringana na \_\_\_\_ cm.
- Kombisa n'we xa-ntsevu ehuleni. Leswi swi ringana na \_\_\_\_ cm.



Languta switiripi swa swiphemu. Hetisa swivulwa.



- Ku na \_\_\_\_ wa tihafu eka xiheri.
- Ku na \_\_\_\_ wa xa-nharhu eka xiheri.
- Ku na \_\_\_\_ wa xa-ntsevu eka xiheri.
- Ku na \_\_\_\_ wa xa-ntsevu eka hafu.
- Ku na \_\_\_\_ wa tihafu eka xiheri.



Tsala xiphemu xa xiyenge lexi dzwihatiweke.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Bana xihendzevutana eka xiphemu lexikulu.

a.  $\frac{1}{2}$     $\frac{1}{3}$

b.  $\frac{1}{2}$     $\frac{1}{6}$

c.  $\frac{1}{2}$     $\frac{2}{6}$

Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_



Siku: .....

### Swiphemu: xa-ntlhanu

Avanyisa swithinana eka 5 wa mabokisi.



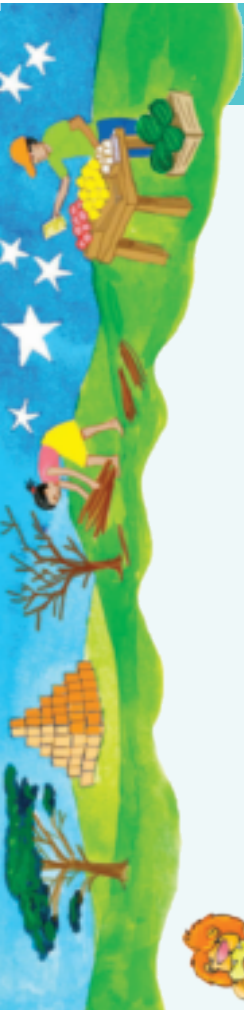
- Eka  $\frac{1}{5}$  ya mabokisi ku na  6 wa swithinana.
- Eka  $\frac{2}{5}$  ya mabokisi ku na  wa swithinana.
- Eka  $\frac{3}{5}$  ya mabokisi ku na  wa swithinana.
- Eka  $\frac{4}{5}$  ya mabokisi ku na  wa swithinana.
- Eka  $\frac{5}{5}$  ya mabokisi ku na  wa swithinana.



Languta swifaniso kutani u hlamula swivutiso.



- Xana ku na tichokoleti tingani ebokisimi?
- n'we-xa-ntlhanu ya tichokoleti yi ringana na
- mbirhi-xa-ntlhanu ya tichokoleti yi ringana na
- nharhu-xa-ntlhanu ya tichokoleti yi ringana na
- mune-xa-ntlhanu ya tichokoleti yi ringana na
- ntlhanu-xa-ntlhanu ya tichokoleti yi ringana na
- Hi siku ra Indzi djile  $\frac{1}{5}$  ya tichokoleti. Xana ku sale tichokoleti tingani?
- Hi siku ra 2 nazi djile  $\frac{1}{5}$  ya tichokoleti. Xana ku sale tichokoleti tingani?



Khalara switir hisiwa swo pima.

a.



Languta switiripi swa swiphemu kutani u hlamula swivutiso.

xiheri				
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$

Bana xirhendzevutana eka leyikulu kumbe leyintsongo

- a.  $\frac{1}{2}$  (i yikulu) yintsongo eka  $\frac{1}{4}$ .
- b.  $\frac{1}{3}$  i yikulu/ yintsongo eka  $\frac{1}{2}$ .
- c.  $\frac{1}{5}$  i yikulu/ yintsongo eka  $\frac{1}{6}$ .
- d.  $\frac{1}{6}$  i yikulu/ yintsongo eka  $\frac{1}{3}$ .
- e.  $\frac{3}{6}$  i yikulu/ yintsongo eka  $\frac{2}{6}$ .



Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_

Siku: .....

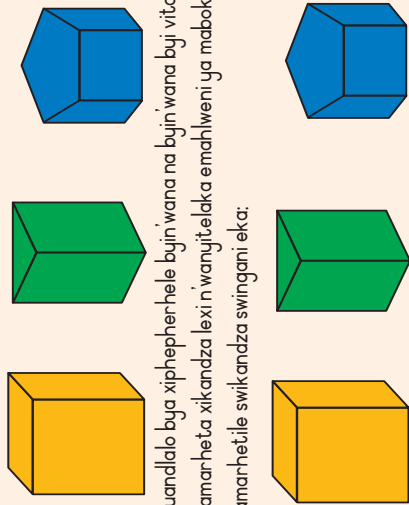
Swilo swa 3-D

- Hayela mabokisi (tiphirizimu)
- Hayela tibolo (swirhendzevutana)
- Hayela tislindara.



Lama i mabokisi hinkawo.

Tirhisa maphepa ya switsemiwa swa 3 na 4, ku swi endla.



- xikwere
- phirizimu
- heksagoni

Vuandlalo bya xiphepherhele bujin wana na byin wana buji vitaniwa emahlweni. Damarheta xikanaza lexi n wanujitelaka emahlweni ya mabokisi. Xana u damarhetile swikandza swingani eka:

Xana tinghohe ta phirizimu i to ringanela kumbe i ta njhikwa?

Sweswi endla silindara hi phepha ra xitsemiwa xa 4. Xana tinghohe ta silindara i to ringanela kumbe i ta njhikwa?



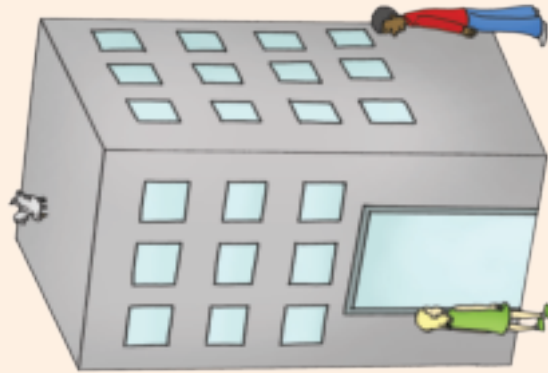
Tirhisa swilo swa wena ku vumba leswi landzelaka.

Hlamusela xigimo xa silindara u tirhisa marito ya.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
e tlhelo	emahlweni	e henhla	



Tirhisa marito lama nga laha hansi ku hetisa swivulwa.



Nhwanyana u languta \_\_\_\_\_ ya muako.  
 Wanuna u languta \_\_\_\_\_ ra muako.  
 Xinyenyana xi languta \_\_\_\_\_ ka muako.

- tlhelo
- e henhla
- emahlweni



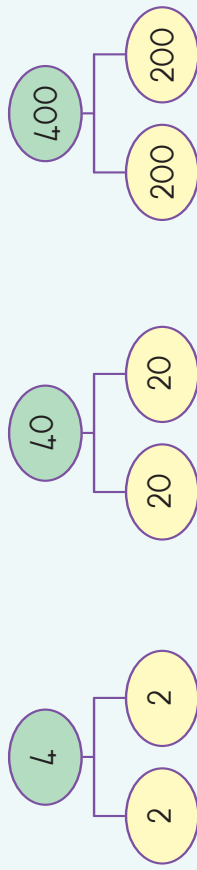
Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_

Siku: .....

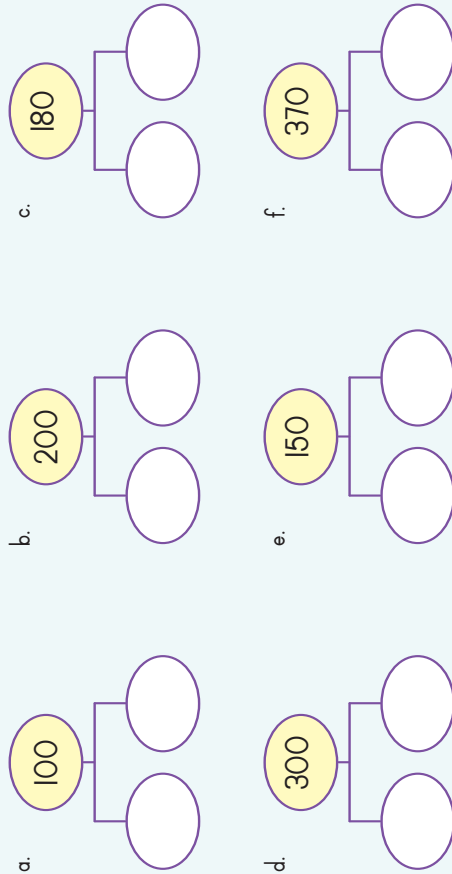
**Ku andzisa kambirhi na hafu**

Xana wa ha tsundzuka? 2 i hafu ya 4      4, i 2 yi andzisiwe kambirhi  
 20 i hafu ya 40      40 i 20 yi andzisiwe kambirhi  
 200 i hafu ya 400      400 i 200 yi andzisiwe kambirhi

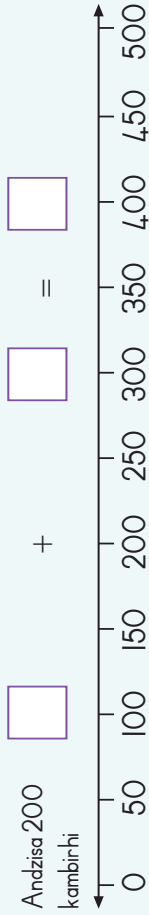
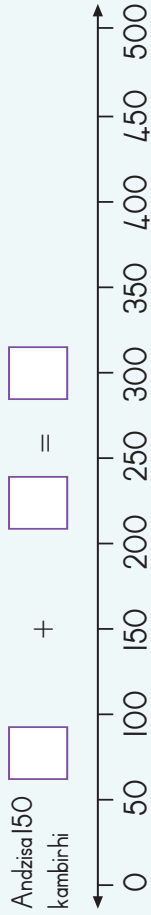
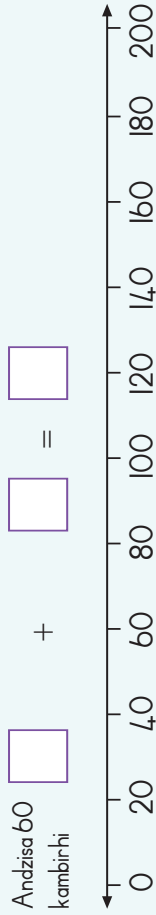
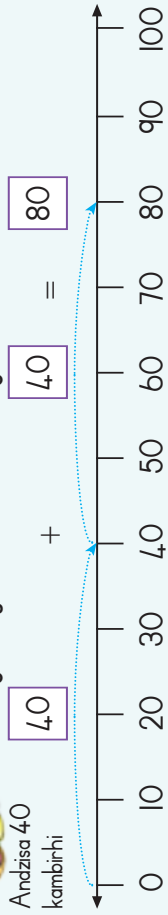
Tsundzuka! Hl i nga kombisa leswi hi xif aniso



**Ku kuma tihafu**



Andzisa nombero kambirhi u tirhisa nazhati wa mitsengo. U nyikiwe xikombiso xo sungula.



**Hetisa leswi landzelaka**

a. Andzisa 100 kambirhi	200
b. Andzisa 150 kambirhi	
c. Andzisa 120 kambirhi	
d. Andzisa 200 kambirhi	
e. Andzisa 170 kambirhi	

**Hetisa leswi landzelaka**

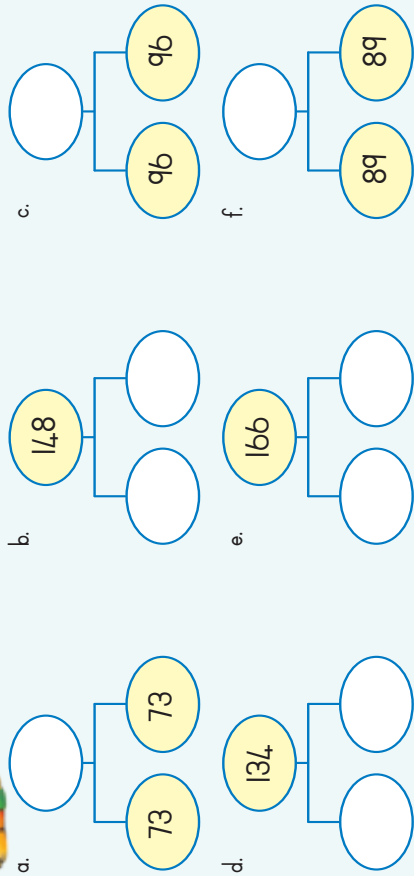
a. Hafula 220	110
b. Hafula 180	
c. Hafula 260	
d. Hafula 60	
e. Hafula 320	

Teacher: \_\_\_\_\_  
 Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_

Siku: .....

Ku andzisa kambirhi na ku hafu kun'wana

Ku kuma ku andzisa kambirhi kumbe tihafu



Ku hlajisela bayisikiri

Peter u hlajisa R25 hi vhiki ku kota ku xava bayisikiri. Xana u fanele ku hlajisa mali eka mavhiki mangani?

Nhlamulo:  wa mavhiki

Ku va eka mbhukuto

Swixaviswa hinkwaswo swi le ka mbhukuto wa hafu ya nxavo. Tsala nxavo wa mbhukuto etihelo ka xixaviswa xin'wana na xin'wana.



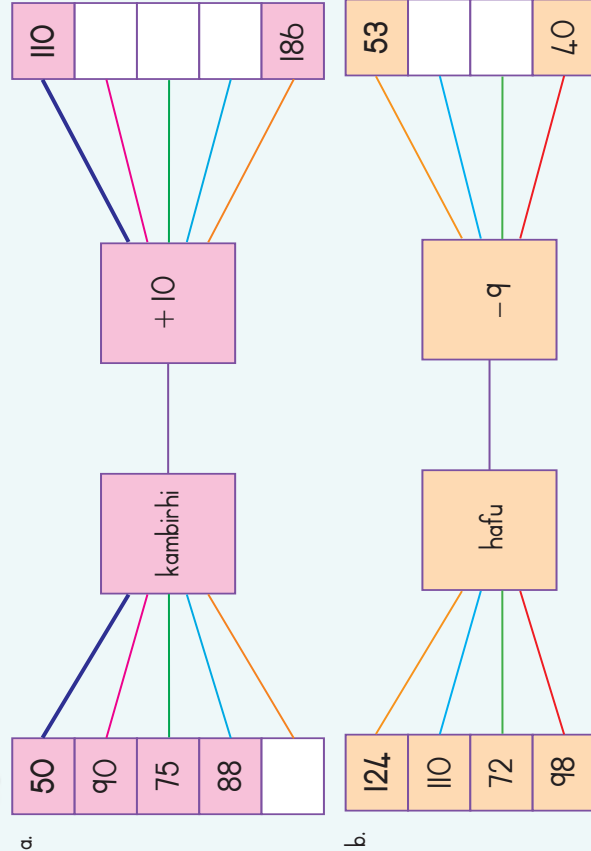
**Mbhukuto R450**  
Nxavo wo hungutuwa hi hafu: A wu ri R900

Xana i tirhandi tingani?

	R135	Musa u lava hembe. O va na hafu ya ntsengo ntsena.
	R78.50	Xana wa ha fanele ku lava mali muni? R _____
	R97	Tintanghu ta Peter ti durha kambirhi ku ri na leti.
		Xana tintanghu ta Peter ti durha mali muni? R _____
		Rhoko ya Phindi yj kambirhi eka nxavo wa leyi.
		Xana rhoko ya Phindi yj durha mali muni? R _____

Xana i yjini xi nghenaka? Xana i yjini xi humaka?

Landzelela xikombiso. Tata tinomboro leti sijiwike.



Siku: .....



### Endla mitlawwa u tlhela u katsa

#### Ku vumba ntlawa wa vana

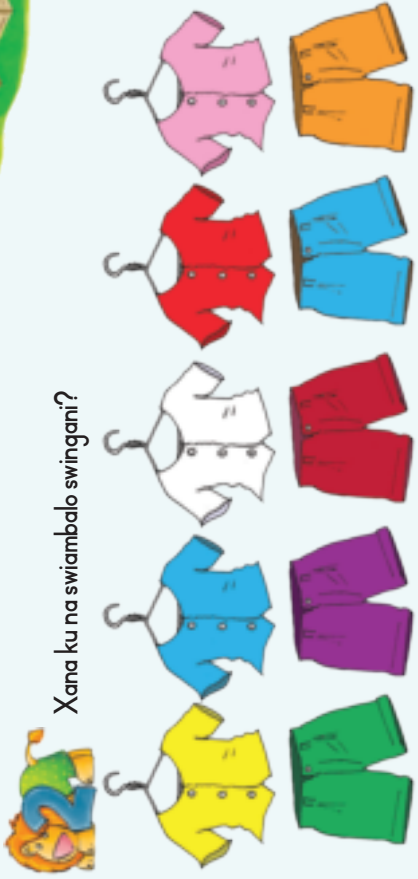
Manana Ndaba u lava ku ava tlilasi hi mitlawwa ya tisojizi leti ringanaka ku endlela mitlangu ya le handle ka muako. Xo sungula u va ntlawahata hi 4, wa swipanu.



- a. Hlaqela vana.
- b. Xana u endlile swipanu swingani?
- c. Komboka tindlela leti n'wana hinkwato to endla mitlawwa ya vana leji ringanaka.

Kambisisa. Ringanisa. Lulamisa.

### Xana ku na swiambalo swingani?



Phindi u na 5 wa tihembe ta mihlovhlovo na 5 wa swiburukwana swa mihlovhlovo.

Xana i swiambalo swingani swo hambana leswi a nga swi endlaka hi ku tirhisa mihlanganelo yo hambana ya mihlovo?

Xikombiso: Hembe ya wasi/xiburukwana xa wasi. Hembe ya wasi/xiburukwana xa xilamula

Tsala le tere kumbe maletere manharhu yo sungula ya sungula na mulovo wun'wana na wun'wana. Komboka swiambalo hinkwaswo leswi n'wana leswi nga endlakwa.

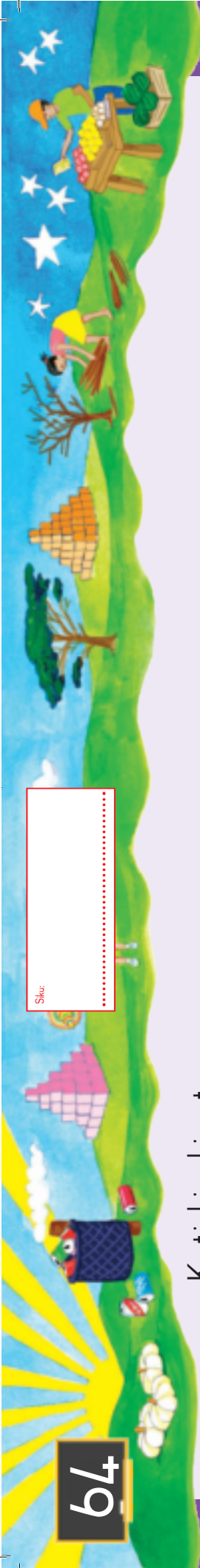
Vhumba: Ku ta humelela ujini loko Phindi a ri na 6 wa mihlovo yo hambana ya tihembe na swiburukwana?

Xana i swiambalo swingani leswi a nga swi endlaka?

Kambisisa. Ranganisa. Lulamisa.

Teacher: \_\_\_\_\_  
Sign: \_\_\_\_\_  
Date: \_\_\_\_\_





Siku:

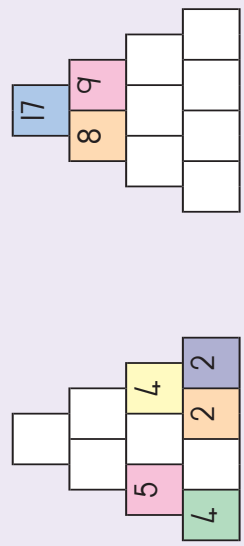
**Ku tiphina hi metse**



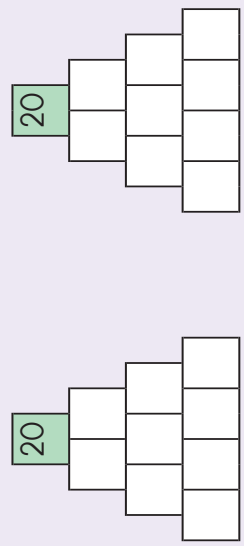
**Lava nawu**

Tirhisa nawu ku kuma tinomboro leti sijeweke.

Sweswi endla leswi



Aka ku fika eka 20 hi 3 wa tindlela to hambana



**Ntlhantlho**

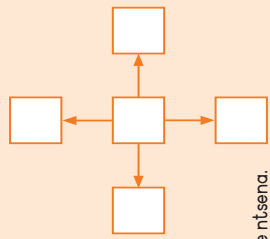


Ehleketai!

Tirhisa tinomboro ta 1, 2, 3, 4, na 5.

3 wa tinomboro eka rixaxa rin'wana na rin'wana ri fanele ku hlangana ri nyjika 10.

Nawu: Tirhisa nomboro yjin'wana na yjin'wana kan'we ntsena.



**Ku kuma tinomboro**



a. Nawu: Tinomboro eka rixaxa rin'wana na rin'wana ti fanele ku hlangana ti va 16.

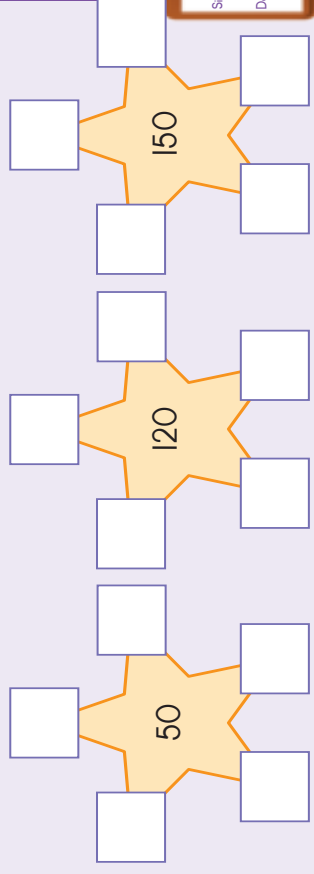
2	5	3	6
			2
		2	

b. Nawu: Ku na 3 wa tinomboro, to hingakanya na to yo ehansi. Hlink'wato tinomboro ti fanele ku hlanganiswa kutani ti nyjika ntsengo lowu fanaka.

2	7	6
9		1
	3	8

23	28	21
12		26
		10

c. Nawu: Tsala 5 wa tinomboro tin'wana na tin'wana leti hlanganaka ti nyjika nomboro ya le xikarhi enyeletini.



Teacher:   
Sign:   
Date:

1	1	0	1	0	0
2	2	0	2	0	0
3	3	0	3	0	0
4	4	0	4	0	0
5	5	0	5	0	0
6	6	0	6	0	0
7	7	0	7	0	0
8	8	0	8	0	0
9	9	0	9	0	0

