



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

XIKOMBISO XA XIKAMBELO XA TIKO XA LEMBE NA LEMBE

GIREDI 3

MATEMATIKI-XITSONGA

SETE 2: 2012 XIKOMBISO

MEMORANDAMU

| XIVUTISO | | NHLAMULO LEYI LANGUTERIWEKE | | | | | | | | | | | | | TIMARAKA |
|----------|---|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------------|
| 1. | a | 497 | 496 | 495 | 494 | 493 | 492 | 491 | 490 | 489 | 488 | 487 | 486 | 485 | 1 1 1 1 1 1 |
| | b | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 | 330 | |
| | c | 385 | 380 | 375 | 370 | 365 | 360 | 355 | 350 | 345 | 340 | 335 | 330 | 325 | |
| | d | 398 | 400 | 402 | 404 | 406 | 408 | 410 | 412 | 414 | 416 | 418 | 420 | 422 | |
| | e | 399 | 396 | 393 | 390 | 387 | 384 | 381 | 378 | 375 | 372 | 369 | 366 | 363 | |
| | f | 144 | 148 | 152 | 156 | 160 | 164 | 168 | 172 | 176 | 180 | 184 | 188 | 192 | |
| 2. | a | 900 , 800 , 700 , 600 , 500 , 400 , 300 , 200. | | | | | | | | | | | | | 1 |
| | b | 150 , 200 , 250 , 300 , 350 , 400 , 450 , 500 | | | | | | | | | | | | | 1 |
| 3. | Emahlweni hi vakhume: 110 , 120, 130 , 140 , 150 , 160 , 170, 180, 190, 200 | | | | | | | | | | | | | 1 | |
| | Endzhaku hi vantlhanu: 190, 185, 180 , 175 , 170 , 165 , 160 | | | | | | | | | | | | | 1 | |
| | Emahlweni hi vanharhu: 153 , 156 , 159 , 162 , 165 , 168 | | | | | | | | | | | | | 1 | |
| | Endzhaku hi vambirhi: 110, 108, 106, 104, 102, 100, 98 | | | | | | | | | | | | | 1 | |
| 4. | 268 i nomboro yo hetelela eka lerhe ra tinomboro (ndzhati wa mintsengo) | | | | | | | | | | | | | 1 | |
| 5. | 150 , 250 , 350, 450 , 550 , 650 , 750, 850 | | | | | | | | | | | | | 1 | |
| | Nawu lowu tirhisiweke: Ku hlayela hi va100 | | | | | | | | | | | | | | |
| 6. | B | | | | | | | | | | | | | 1 | |
| 7. | 250 | | | | | | | | | | | | 5 | | |
| | 117 | | | | | | | | | | | | | | |
| | 8 | | | | | | | | | | | | | | |
| | 246 | | | | | | | | | | | | | | |
| | 139 | | | | | | | | | | | | | | |
| 8. | a. | 762 | | | | | | | | | | | | | 1 |
| | b. | 984 | | | | | | | | | | | | | 1 |
| | c. | 609 | | | | | | | | | | | | | 1 |
| 9. | a. | Madzanambirhi makumenharhunthanu | | | | | | | | | | | | | 1 |
| | b. | Dzana | | | | | | | | | | | | | 1 |
| | c. | Dzana makumehungunharhu | | | | | | | | | | | | | 1 |
| 10. | a. | Dzana makumenharhukaye √ 139 √ | | | | | | | | | | | | | 2 |

| | | | |
|--|----|--------------------------|---|
| | b. | Dzana makumekaye ✓ 190 ✓ | 2 |
|--|----|--------------------------|---|

| | | | |
|-----|----|---------------------------------------|---|
| 11. | a. | Dzana makumemunemune✓ 244✓ | 2 |
| | b. | Dzana makumenharhunhungu✓ 138✓ | 2 |
| | c. | Makumenhungunhungu✓ 88✓ | 2 |
| 12. | a. | Dzana makumentlhanu✓ 150✓ | 2 |
| | b. | Madzanambirhi makumenkombomune✓ 274 ✓ | 2 |
| | c. | Makumentlhanuntlhanu ✓ 55✓ | 2 |
| 13. | a. | I mavunwa | 1 |
| | b. | I ntiyiso | 1 |
| | c. | I ntiyiso | 1 |
| 14. | a. | < | 1 |
| | b. | < | 1 |
| | c. | > | 1 |
| 15. | a. | 112 , 122 , 211 , 212 , 221 | 1 |
| | b. | 220 , 230 , 302 , 320 , 330 | 1 |
| | c. | 246 , 266 , 424 , 426 , 462 | 1 |
| 16. | a. | 221 , 212 , 211 , 122 , 112 | 1 |
| | b. | 330 , 320 , 302 , 230 , 220 | 1 |
| | c. | 462 , 426 , 424 , 266 , 246 | 1 |
| 17. | | B | 1 |
| 18. | a. | 3 | 1 |
| | b. | 200 | 1 |
| | c. | 0 | 1 |

| | | | | | | | | | | | | |
|----------------------|------------------|---|---------------|------------------|----------------------|-----------------|----------------|------------------|----------------|------------------|--|---|
| | d. | 20 | | 1 | | | | | | | | |
| | a. | 236 | | 1 | | | | | | | | |
| | b. | 9 | | 1 | | | | | | | | |
| | c. | 2 xidzana 3 vukhume 6 vun'we | | 1 | | | | | | | | |
| | d. | 9 | | 1 | | | | | | | | |
| | e. | 100 | | 1 | | | | | | | | |
| | f. | 10 | | 1 | | | | | | | | |
| 20. | a. | 304 | | 1 | | | | | | | | |
| | b. | 63 | | 1 | | | | | | | | |
| | c. | 222 | | 1 | | | | | | | | |
| | d. | 416 | | 1 | | | | | | | | |
| 21. | | 315 | | 1 | | | | | | | | |
| 22. | | 400 + 80 + 5 | | 1 | | | | | | | | |
| | | 200 + 200 + 40 + 40 + 3 + 2 kumbe matlhantlhello man'wana na man'wana lama nga wona | | 1 | | | | | | | | |
| 23. | a. | 0 xidzana, 6 makume, kumbe 63 vun'we | | 1 | | | | | | | | |
| | b. | 2 xidzana kumbe 25 makume, kumbe 258 vun'we | | 1 | | | | | | | | |
| | c. | 3 xidzana kumbe 306 vun'we | | 1 | | | | | | | | |
| | d. | 4 xidzana kumbe 44 makume kumbe 440 vun'we | | 1 | | | | | | | | |
| 24. | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">$50 + 20 + 5$</td> <td style="width: 50%; padding: 5px;">$360 \checkmark$</td> </tr> <tr> <td style="padding: 5px;">$200 + 120 + 20 + 7$</td> <td style="padding: 5px;">$75 \checkmark$</td> </tr> <tr> <td style="padding: 5px;">$300 + 60 + 0$</td> <td style="padding: 5px;">$444 \checkmark$</td> </tr> <tr> <td style="padding: 5px;">$400 + 40 + 4$</td> <td style="padding: 5px;">$347 \checkmark$</td> </tr> </table> | $50 + 20 + 5$ | $360 \checkmark$ | $200 + 120 + 20 + 7$ | $75 \checkmark$ | $300 + 60 + 0$ | $444 \checkmark$ | $400 + 40 + 4$ | $347 \checkmark$ | | 4 |
| $50 + 20 + 5$ | $360 \checkmark$ | | | | | | | | | | | |
| $200 + 120 + 20 + 7$ | $75 \checkmark$ | | | | | | | | | | | |
| $300 + 60 + 0$ | $444 \checkmark$ | | | | | | | | | | | |
| $400 + 40 + 4$ | $347 \checkmark$ | | | | | | | | | | | |

Tioparexini eka tinomboro: Ku hlanganisa, Ku susa, Ku andzisa na Ku avanyisa

| | | | | | |
|----|----|--|---|-------------------------------|--------|
| 1. | a. | Nomboro yi mbirhahatiwile | Nomboro | Nomboro yi hafuriwilel | 6 |
| | | 62 ✓ | 31 | 15 na hafu ✓ | |
| | | 324 ✓ | 162 | 81 ✓ | |
| | | 812 ✓ | 406 | 203 ✓ | |
| | b. | Nomboro | Nomboro yi tshunetiwile eka vu10 bya le kusuhi | | 1 1 |
| | | 152 | 150 ✓ | | |
| | | 75 | 80 ✓ | | |
| 2. | a | I ntiyiso | | | 1 |
| | b | I mavunwa | | | 1 |
| | c | I ntiyiso | | | 1 |
| | d | I mavunwa | | | 1 |
| 3. | a. | $200 + 10 + 9 + 100 + 30 + 7 = 356$ | | | 1 |
| | b. | $200 + 50 + 9 + 40 + 5 = 304$ | | | 1 |
| | c. | $200 + 30 + 6 + 100 + 10 + 4 = 350$ | | | 1 |
| 4. | a. | 302 | | | 1 |
| | b. | 328 | | | 1 |
| | c. | 221 | | | 1 |
| 5 | a. | 400 | | | 1 |
| | b. | 290 | | | 1 |
| 6 | a. | $175 - 50 - 9 = 125 - 9 = 116$ | | | 1 |
| | b. | $194 - 100 - 30 - 7 = 94 - 30 - 7 = 64 - 7 = 57$ | | | 1 |
| 7. | a. | $300 + 70 + 7 - 100 - 30 - 4 = 200 + 40 + 3 = 243 ✓$ | | | 2 |

| | | | |
|-----|----|---|---|
| | b. | $200 + 90 + 4 - 100 - 50 - 2^{\vee} = 100 + 40 + 2 = 142 \checkmark$ | 2 |
| 8. | a. | $10 \times 5 + 3 \times 5 = 50 + 15^{\vee} = 65 \checkmark$ | 2 |
| | b. | $10 \times 4 + 7 \times 4$ $= 40 + 28$ $= 68$ | 2 |
| 9. | a. | $12 + 12 + 12 + 12 + 12 + 12 = 72$ | 2 |
| | b. | $14 + 14 + 14 + 14 + 14 = 70$ | |
| 10. | a. | $54 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 = 0$ swi vula leswaku $54 \div 6 = 9$ | 2 |
| | b. | $72 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 = 0$ swi vula leswaku $72 \div 9 = 8$ | |
| 11. | a. | $40 \div 10 + 30 \div 10 = 4 + 3 = 7$ | 2 |
| | b. | $40 \div 8 + 8 \div 8 = 5 + 1 = 6$ | |

KU OLOLOXA SWIPHIQO (TINHLAYO TA MARITO).

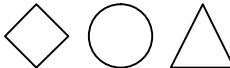
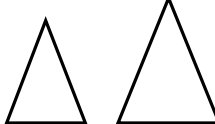

| | | | |
|----|----|---|---|
| 1. | a. | $499 - 163 = 336$ | 1 |
| | b. | $216 + 93 = 309$ | 1 |
| 2. | | Nomboro ya timhavula = $125 - 82 = 43$ | 1 |
| 3. | | Nomboro ya swiwiti = $120 \times 2 = 240 - 96 = 144$ | 2 |
| 4. | | Nomboro ya tibara = $86 + 123 + 219 = 428$ | 1 |
| 5. | | Nomboro ya mavhilwa = $6 \times 3 = 18$ | 1 |
| 6. | | Nomboro ya tikherotsi yinwe $40 \div 5 = 8$ | 1 |
| 7. | a. | Nomboro ya un'we = $41 \div 2 = 20$ na hafu | 1 |
| | b. | Nomboro ya mandza = $49 \div 4 = 12$ na nsalo wa1 | 1 |
| | c. | Nomboro ya un'we = $22 \div 3 = 7$ na 1 xa nharhu/nsalo wa1 | 2 |

MINKHAKHULETO YA MALI.

| | | |
|----|---|---|
| 1. | $Ntsengo lowu tirhisiweke = 20 \times 25c + 14 \times R2,50 + 20 \times R1,50 + 12 \times R5$ $= R1 + R35 + R30 + R60$ $= R120$ | 5 |
|----|---|---|

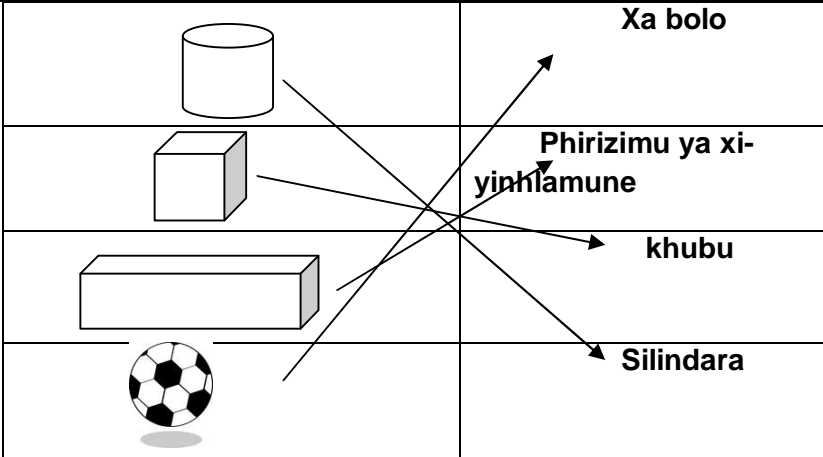
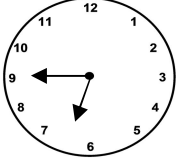
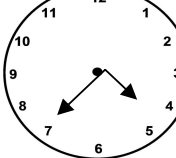
| | | | | | | | | | | |
|----|---------------------|---|---|---|----|----|----|----|----|---|
| 2. | a. | Ntsengo wa minxavo = $R10 + R3,50 + R3,50 = R17,00$ | | | | | | | 2 | |
| | b. | Cinci = $R5,00 + R5,00 + R5,00 = R15,00$ $R20,00 - R15,00 = R5,00$ kumbe $R20 - R5 \times 3 = R20 - R15$ | | | | | | | 1 | |
| 3. | Nomboro ya mabandhi | | 1 | 2 | 3 | 4 | 5 | 10 | 20 | 5 |
| | Ntsengo hi tirhandi | | 4 | 8 | 12 | 16 | 20 | 40 | 80 | |

TIPATIRONI ,TIFANKIXINI NA ALIJEKURA

| | | | | | | | | | |
|----|---|--|----|----|----|------------|-----------|---|---|
| 1. |  | | | | | | | 1 | |
| 2. |  | | | | | | | 1 | |
| 3. | Maraka yi1 ya nxaxamelo lowu nga wona | | | | | | | 1 | |
| 4. |  | | | | | | | 1 | |
| 5. | a. | 360, 363, 369, 372, 375, ku hlayela u ya emahlweni hi va3 | | | | | | | 2 |
| | b. | 440, 444, 448, 452, 456, ku hlayela u ya emahlweni hi va4 | | | | | | | |
| 6. | B | | | | | | | 1 | |
| 7. | Swipaci | | 1 | 2 | 3 | 14 | 50 | 2 | |
| | Vuhlalu | | 10 | 20 | 30 | 140 | 500 | | |

VUNDHAWU NA XIVUMBEKO

| | | | | | | | | |
|----|---------|--|--|--|--|--|--|---|
| 1. | A | | | | | | | 1 |
| 2. | Xikwere | | | | | | | 1 |
| 3. | 6 | | | | | | | 1 |

| | | | | |
|----|----|---|--|---|
| 4. | |  | | 4 |
| 5. | | 2 , 1 na 4 | | 3 |
| 1. | A | 18 wa timinete ku bile 8 KUMBE 8:18 | | 1 |
| | B | 8 wa timinete ku bile awara 10 KUMBE 10:08 | | 1 |
| | C | 10 wa timinete ku nga si ba awara ya 2 KUMBE 1:50 KUMBE 13:50 | | 1 |
| 2. | a. |  | | 1 |
| | b. |  | | 1 |
| 3 | | 2:35 | | 1 |
| 4. | | 45 wa timinete | | 1 |
| 5. | | $22 - 8 = 14$ wa masiku | | 1 |
| 6. | a. | 27 mm kumbe 2cm na 7mm | | 1 |
| | b. | 18 mm kumbe 1 cm na 8 mm | | 1 |

MATIRHISELO YA VUXOKOXOKO BYA TINHLAYO

| | | | |
|----|----|----------------|---|
| 1. | a. | 20 | 1 |
| | b. | Ravuntlhanu | 1 |
| | c. | 55 | 1 |
| | d. | $55 - 40 = 15$ | 1 |
| 2. | a. | 4 | 1 |
| | b. | Suzie | 1 |
| | c. | Lebo | 1 |
| | d. | $9 + 4 = 13$ | 1 |