basic education
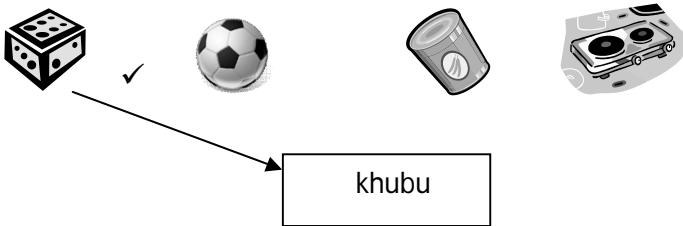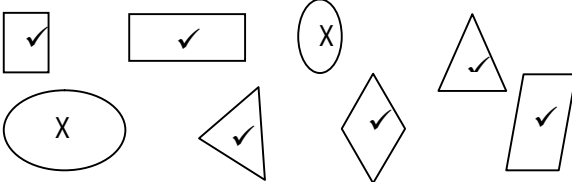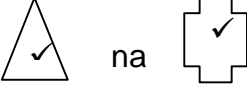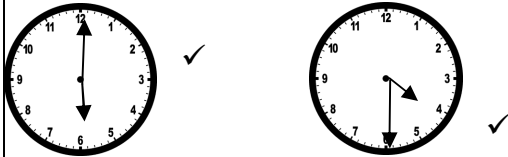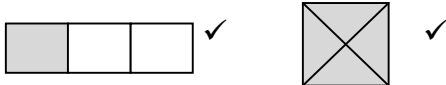
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

XIKAMBELO XA TIKO XA LEMBE NA LEMBE 2013
GIREDI YA 2 MATEMATIKI
XIKOMATINHLAMULO
XIKOMBISO
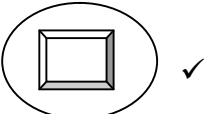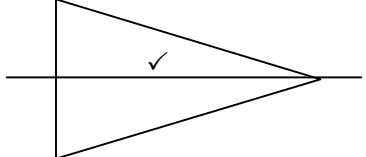
**Xikombatinhlamulo lexi xi na 7 wa mapheji.**
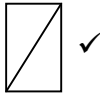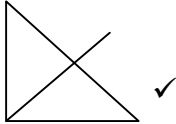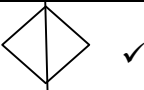
**Swiletelo swa makoroketelo:**
1. **Nyika timaraka leti heleleke eka tinhlamulo ntsena, handle ka loko swi vuriwile.**
2. **Amukela maendlelo man'wana na man'wana lama nga wona lama nga katsiwangiki eka xikombatinhlamulo, handle ka loko swi vurile.**

| Xivutiso | Nhlamulo leyi languteriweke | Timaraka | Ntsengo |
|---|---|---|---|
| 1.1 | △ ○ □ ✓ | 1 | 3 |
| 1.2 | ◯◯ △△ ✓ | 1 | |
| 1.3 | D ✓ | 1 | |
| 2.1 |  khubu | 1 | 4 |
| 2.2 |  | 2 | |
| 2.3 |  na | 1 | |
| 3.1 | 169 ✓ | 1 | 1 |

| Xivutiso | | Nhlamulo leyi languteriweke | Timaraka | Ntsengo |
|---|---|---|---|---|
| 3.2 | 3.2.1 | 49 — makumemune nkaye<br>55 — makumentsevu nharhu<br>63 — makumenkombo mune<br>74 — khumenhungu<br>18 — makumentlhanu ntlhanu<br>(matching lines) | 1<br>1<br>1<br>1<br>1 | 5 |
| 3.3.1 | | 101✓ | 1 | |
| 3.3.2 | | 100✓ | 1 | 3 |
| 3.3.3 | | 110✓ | 1 | |
| 4. | | makumemune nkombo ✓<br>(honisa xihoxo xa mapeletelo) | 1 | 1 |
| 5.1 | | Hafu ku bile awara ya n'we / 1:30✓ | 1 | |
| 5.2 | |  | 2 | 4 |
| 5.3 | | 8 ✓ | 1 | |
| 6.1 | | C ✓<br>U nga amukeli nhlamulo ya kotara yi1.<br>Xivutiso a xi lava leswaku a tsondzela letere leri nga na nhlamulo. | 1 | 4 |
| 6.2 | | 2 /mbirhi✓      hafu yi1 / hafu yin'we ✓ | 1 | |
| 6.3 | |  | 2 | |
| 7.1 | | 162, 152, 131, 129, 117✓ | 1 | 4 |
| 7.2.1 | | 90, 95, 100, 105, 110 ✓ | 1 | |

| Xivutiso | Nhlamulo leyi languteriweke | Timaraka | Ntsengo |
|---|---|---|---|
| 7.2.2 | 5, 15, 51, 105, 115 ✓ | 1 | |
| 7.3 | B✓ <br><br> U nga amukeli nhlamulo ya 80; 64; 40; 21; 12 <br><br> Xivutiso xi lava leswaku a tsondzela letere leri nga na nhlamulo. | 1 | |
| 8.1 | A ✓ <br> U nga amukeli nhlamulo ya 28. <br> Xivutiso xi lava leswaku a tsondzela letere leri nga na nhlamulo. | 1 | 6 |
| 8.2.1 | 1 + 3 ✓ amukela nkatsano wun'wana na wun'wana lowu nga wona | 1 | |
| 8.2.2 | 5 + 5 + 2 ✓ amukela nkatsano wun'wana na wun'wana lowu nga wona | 1 | |
| 8.2.3 | 10 + 10 = 46 ✓ amukela nkatsano wun'wana na wun'wana lowu nga wona | 1 | |
| 8.2.4 | 2 + 3 = 30 ✓ amukela nkatsano wun'wana na wun'wana lowu nga wona | 1 | |
| 8.3 | 9 ✓ | 1 | |
| 9.1 | rheta    khunguluka✓ | 1 | |
| 9.2 |  ✓ | 1 | 4 |
| 9.3 | Nchumu lowu nga khungulukaka    Nchumu lowu nga rhetaka <br><br> Amukela nchumu wun'wana na wun'wana lowu nga khungulukaka. ✓    Amukela nchumu wun'wana na wun'wana lowu nga rhetaka. ✓ | 2 | |
| 10.1 |  | 1 | |

| Xivutiso | Nhlamulo leyi languteriweke | Timaraka | Ntsengo |
|---|---|---|---|
| 10.2 |  | 2 | 4 |
| 10.3 |  | 1 | |
| 11.1.1 | 57; 54; 51✓ | 1 | 4 |
| 11.1.2 | 153;157; 161 ✓ | 1 | |
| 11.2.1 | 164; 166; 172✓ | 1 | |
| 11.2.2 | 158; 161; 167 ✓ | 1 | |
| 12.1 | 80 kumbe makumenhungu ✓ | 1 | 3 |
| 12.2.1 | 70 kumbe makumenkombo ✓ | 1 | |
| 12.2.2 | 3 kumbe nharhu ✓ | 1 | |
| 13.1.1 | 58 ✓ | 1 | 10 |
| 13.1.2 | 14 na hafu ✓ | 1 | |
| 13.2.1 | 12✓; 8✓; 6 ✓ | 3 | |
| 13.2.2 | 36✓; 20✓; 28 ✓ | 3 | |
| 13.3.1 | 12    =   6 + 6 ✓ (amukela na maendlelo man'wana) | 1 | |
| 13.3.2 | 16    =   8 + 8 ✓(amukela na maendlelo man'wana) | 1 | |
| 14.1 | i yintsongo eka ✓ | 1 | 6 |
| 14.2.1 | > ✓ | 1 | |
| 14.2.2 | = ✓ | 1 | |
| 14.2.3 | < ✓ | 1 | |
| 14.3.1 | < ✓ | 1 | |
| 14.3.2 | < ✓ | 1 | |
| 15.1.1 | 15 ✓ | 1 | |

| Xivutiso | Nhlamulo leyi languteriweke | Timaraka | Ntsengo |
|---|---|---|---|
| 15.1.2 | 21 ✓ | 1 | |
| 15.2 | | 1<br>1<br>1 | 7 |

| mimovha | 1 | 3 | 5 | 6✓ | 9 |
|---|---|---|---|---|---|
| mavhilwa | 4 | 12✓ | 20 | 24 | 36✓ |

| Xivutiso | Nhlamulo leyi languteriweke | Timaraka | Ntsengo |
|---|---|---|---|
| 15.3.1 | 10 ✓ | 1 | |
| 15.3.2 | 40 ✓ | 1 | |
| 16.1 | + ✓ | 1 | |
| 16.2 | _ ✓ | 1 | 2 |
| 17.1 |  5kg ✓ | 1 | |
| 17.2 | | 1<br>1<br>1 | 5 |

| Nchumu | Ntiko |
|---|---|
| Salt/ Munyu | 1 kg ✓ |
| Rice/ Rhayisi | 2 kg ✓ |
| Sugar/ Chukele | 5 kg ✓ |

| Xivutiso | Nhlamulo leyi languteriweke | Timaraka | Ntsengo |
|---|---|---|---|
| 17.3 | tikanyana✓ | 1 | |
| 18.1 | 36 - 4 ➝ 32 - 4 ➝ 28 - 4 ➝24 - 4 ➝ 20 - 4➝ 16 - 4<br>12 - 4 ➝8 - 4 ➝ 4 - 4➝ 0✓<br><br>Ku ta tatiwa 9 wa maphakiti  naswona  ku ta sala 0 apula /a ku nga sali nchumu. ✓<br><br>maraka yi1 ya maendlelo na  maraka yi1 ya nhlamulo. | <br>1<br>1 | <br><br><br><br>4 |

| Xivutiso | Nhlamulo leyi languteriweke | Timaraka | Ntsengo |
|---|---|---|---|
| 18.2 | 38 - 4 → 34 - 4 → 30 - 4 → 26 - 4 → 22 - 4 → 18 - 4<br>14 - 4 → 10 - 4 → 6 - 4 → 2 ✓<br><br>9 wa maphakiti naswona ku ta sala ti2 ✓<br><br>maraka yi1 ya maendlelo na maraka yi1 ya nhlamulo | 1<br><br>1 | |
| 19.1 | 12 ✓ | 1 | 2 |
| 19.2 | 12 ✓ | 1 | |
| 20.1 | Cinci = R20 - (R12 +R4)  **kumbe**  R20 - R12 - R4<br>        = R20 - R16 ✓          = R8 - R4<br>        = R4 ✓              = R4 | 1<br>1 | |
| 20.2 | ✓<br>R20 ÷ R4 = 5 ✓<br>kumbe<br>R20 – R4= R16 – R4= R12 – R4= R8 – R4= R4-✓ R4 = 0<br> 5 wa tiayisikhirimu ✓ | 1<br>1 | 6 |
| 20.3 | R12 + R12 = R24 ✓<br>R24 – R20 = R4<br>U kayivela hi R4 ✓ | 1<br>1 | |
| 21.1 | 5 ✓ | 1 | |
| 21.2 | ntlhanu ✓ | 1 | 4 |
| 21.3 | 4 ✓ na 1 ✓ | 2 | |
| 22.1 | ✓                    ✓<br>4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 = 36<br> kumbe<br><br>9 x 4 = 36<br><br>maraka yi1 ya maendlelo na maraka yi1 ya nhlamulo | 1<br>1 | |
| 22.2 | ✓        ✓<br>9 x 4 = 36<br>kumbe<br>9 + 9 + 9 + 9 = 36<br>maraka yi1 ya maendelo na maraka yi1ya nhlamulo | 1<br>1 | 4 |
| 23.1.1 | Luva ✓ | 1 | |

| Xivutiso | Nhlamulo leyi languteriweke | Timaraka | Ntsengo |
|---|---|---|---|
| 23.1.2 | 13✓ | 1 | |
| 23.2.1 | 6✓ | 1 | 10 |
| 23.2.2 | 4✓ | 1 | |
| 23.2.3 | 5✓ | 1 | |
| 23.2.4 | 3✓ | 1 | |
| 23.2.5 | (see pictograph below) | 4 | |

**23.2.5**

| Nhlayo ya vafana | ✓ | | | |
|---|---|---|---|---|
| | ☺ | | ✓ | |
| | ☺ | ✓ | ☺ | |
| | ☺ | ☺ | ☺ | ✓ |
| | ☺ | ☺ | ☺ | ☺ |
| | ☺ | ☺ | ☺ | ☺ |
| | ☺ | ☺ | ☺ | ☺ |
| | Mintlangu | Xitori | Vukhoneri | Bolo |
| | MINONGONOKO YA TV | | | |