



Province of the  
**EASTERN CAPE**  
EDUCATION

## **IBAKALA ELIPHEZULU**

**IBANGA 7**

**NOVEMBA 2017**

**IZIBALO**

**AMANQAKU:** 100

**IXESHA:** 2 iiyure

**Igama lomfundi:** \_\_\_\_\_

**Igama lesikolo:** \_\_\_\_\_



\_\_\_\_\_  
Eli phepha lemibuzo linamaphepha ali 14.  
\_\_\_\_\_

**IMIYALELO**

1. Funda YONKE imibuzo ngokugqibeleleyo.
2. Phendula UMBUZO 2 ukuya ku 25 kwizithuba okanye kwiifreyim ozinikiweyo.
3. Wonke umsebenzi mawenziwe kwiphepha lemibuzo hayi kwelinye iphepha.
4. Ungayisebenzisa ikhalithuleyitha engaprogranywangwa nengenagrafiki (non-programmable and non-graphical).

**ULWAZI**

1. Uvavanyo lunamanqaku ali 100.
2. Uvavanyo luthatha iiyure ezi-2.
3. Zonke iidayagram azizotywanga ngokwesikeyile (scale).
4. UMBUZO 1 unemibuzo eli 10 eneempendulo ezinikiweyo ezikhethwayo. Biyela unobumba wempendulo echanekileyo.
5. Utitshala uzakunceda ukuphendula umbuzo ongumzekelo phambi kokuba uqale uvavanyo.

**UMBUZO ONGUMZEKELO**

Biyela unobumba onempendulo echanekileyo.

Khalithuleyitha (Calculate):  $7 \times 5 = \dots$

- A 12
- B 35
- C 75
- D 57

Uphendule kakuhle ukuba ubiyele u (B) ngentla.

**QAPHELA:**

- Uza kuphendula iimpindulo ezininzi ezifana nale ugqiba kuyiphendula ngasentla.
- Yenza kangangoko unakho ukuphendula umbuzo ngamnye nokuba awuqinisekanga ngempendulo.
- Bhala impendulo ocinga ukuba yeyona iyiyo uze ugqithele kumbuzo olandelayo.
- Xa ugqibile ukuphendula yonke imibuzo kwiphepha ngalinye, gqithela kwiphepha elilandelayo.
- Jonga kumsenzi wakho kuphela.

**UVAVANYO LUYAQALA KWIPHEPHA ELILANDELAYO.**

1. Imibuzo eneempendulo ezinikiweyo ezikhethwayo (Multiple-choice questions).

1.1 U9 347 879 xa **esondezwe kweyona 1 000 (rounded off) ikufutshane ngu?**

- A 9 348 000
  - B 9 348 300
  - C 9 347 380
  - D 9 347 370
- (1)

1.2 Nika **ixabiso (value)** ledijithi ekrwelelwe umngca ngaphantsi ku 23,654?

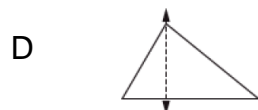
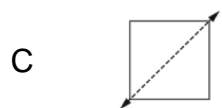
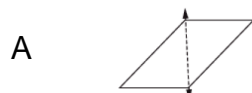
- A Sixty
  - B Six tenth
  - C Six hundredth
  - D Six thousandth
- (1)

1.3 Bhala **ithem eshiyiweyo (missing term)** kwisikhwensi.

5; 10; \_\_\_\_\_; 40; 80

- A 25
  - B 30
  - C 15
  - D 20
- (1)

1.4 Yeyiphi kwezi figa (figures) zilandelayo **enomgca wesimetri omnye?**



(1)

1.5 Khalityhuleyitha:

$$4 + 2 \times 4 =$$

- A 24
  - B 32
  - C 12
  - D 10
- (1)

1.6 Khetha iifektha zika 20 koku kulandelayo:

- A 1; 2; 4; 5; 10; 15; 20
- B 1; 2; 4; 5; 10; 20
- C 1; 2; 4; 8; 10; 20
- D 1; 2; 4; 5; 12; 20

(1)

1.7 Yeyiphi eyona maltipuli (multiple) iqhelekileyo encinci (**lowest common multiple**) ka 8 no 24?

- A 8
- B 24
- C 32
- D 192

(1)

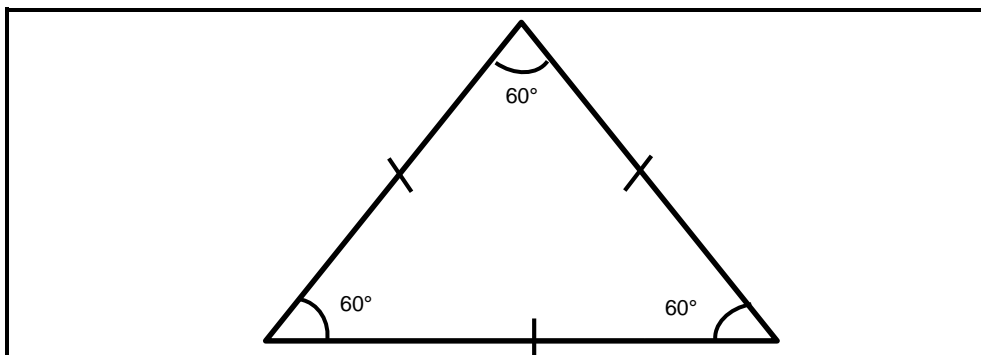
1.8 Bhala ixabiso (value) lika  $p$ :

$$p - 8 = 4$$

- A 4
- B 6
- C 12
- D 2

(1)

1.9 Loluphi uhlobo lwetrayengile olu?



- A Yi- right angled triangle
- B Yi- Obtuse angled triangle
- C Yi- Equilateral triangle
- D Yi- Isosceles triangle

(1)

1.10 Khalityhuleyitha:

$$(-6) + 4 =$$

- A -10
- B -2
- C 2
- D 10

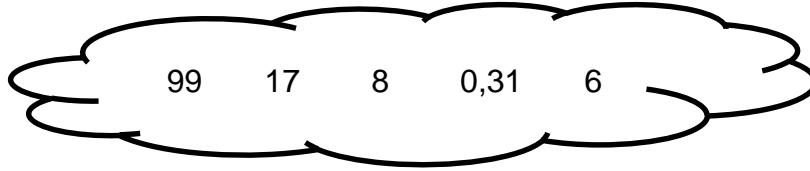
(1)

**[10]**

2. Khetha inani libelinye kolu luhlu eliyakuba yimpendulo yengxelo (isteytmenti) elandelayo:

Iprayim fektha ka 17: \_\_\_\_\_

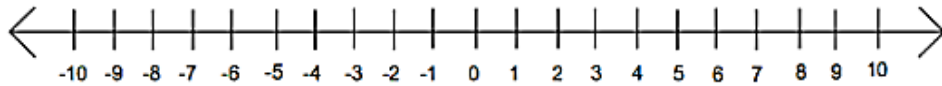
(1)



3. **Sebenzisa umgca manani** ukubala okulandelayo:

3.1  $6 + (-8) + (-2) =$

(1)



3.2 Khalityhuleyitha:  $-5 - (-13) =$  \_\_\_\_\_

(1)

4. Nika ixabiso (value) lika  $x$ .

4.1  $3x = 27$

\_\_\_\_\_

(1)

4.2  $\frac{x}{5} = 10$

\_\_\_\_\_

(1)

5. **Simplifaya:**

5.1  $\frac{4}{5} \times 3\frac{1}{3} =$

(2)

5.2  $324,348 + 17,879 - 6,507 =$

(2)

5.3  $0,048 \div 8 =$

(2)

5.4  $\sqrt{144} - 2^4 - 4 + \sqrt[3]{27} =$

(3)

5.5 Izihlangu zithotywe ukusuka kwi R600 zaya kwi R324. Ingakanani ipesenti ezithotywe ngayo?

(2)

5.6 Abafundi bebanga 7 abayi 32 babebukele umbhoxo (irabhi). Ireysiyo (ratio) yenani lamakhwenkwe kwelamantombazana laliyi 5:3. Mangaphi amantombazana ayelapho?

(3)

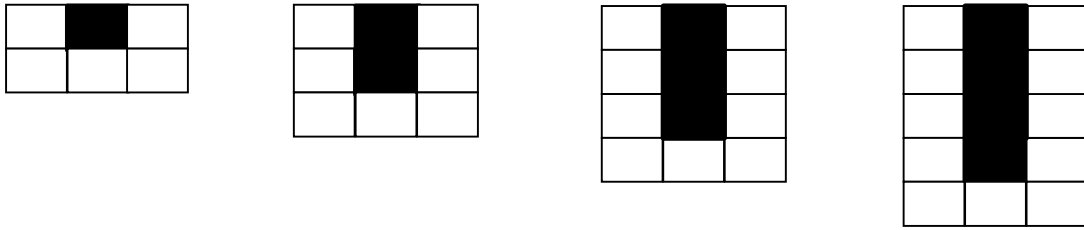
5.7 Ibhanki inika i5% yenzala (interest) ngonyaka. Ukuba kukho i R1 500 kwi akhawunti, izakuba namalini i akhawunti emva kweminyaka emi-2?

(3)

5.8 UThemba uneminyaka eli 12 ubudala. Umnakwabo uyi  $\frac{1}{2}$  yeminyaka yakhe, aze abemdala ngokuphindwe kabini (twice) kunodade wakhe. Mingaphi iminyaka kadade wakhe?

(2)

6. Qwalasela iiphateni zedayagram ezilandelayo uze ugqibezele itheyibhule.



INANI LEETHAYILE EZIMNYAMA (BLACK TILES)	INANI LEETHAYILE EZIMHLOPHE (WHITE TILES)
1	5
2	7
3	9
4	11
5	(6.1) _____
(6.2) _____	103
$n$	(6.3) _____

(1)

(1)

(1)

6.4 Sebenzisa amazwi akho ukuchaza umthetho osetyenzisiweyo kwiiphateni ezinikiweyo ngentla.

---



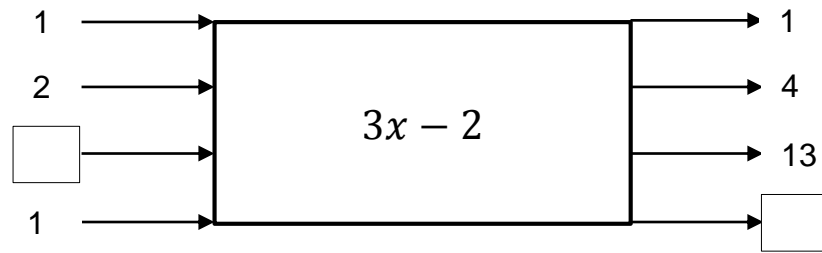
---



---

(2)

7. Gqibezela iflow dayagram elandelayo.



(2)

8. Qwalasela itheyibhule engezantsi uze uphendule imibuzo.

$x$	1	2	3	4
$y$	5	10	15	20

8.1 Chaza ukhlobana (relationship) kuka  $x$  no  $y$  ngamazwi akho:

---



---



---

(2)

8.2 Cacisa ukhlobana phakathi kuka  $x$  no  $y$  ngokwe ikhweyijhini.

---

(2)

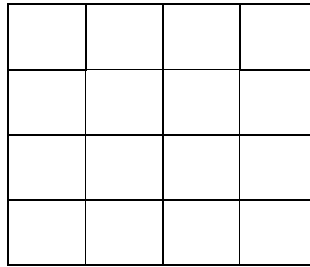
9. Sebenzisa umelo (substitution) ukusombulula (solve) okulandelayo:

Ukuba u- **a = 12**; **b = 8** no **c = 4**

9.1  $b \div c + 5^2 = \underline{\hspace{2cm}}$  (1)

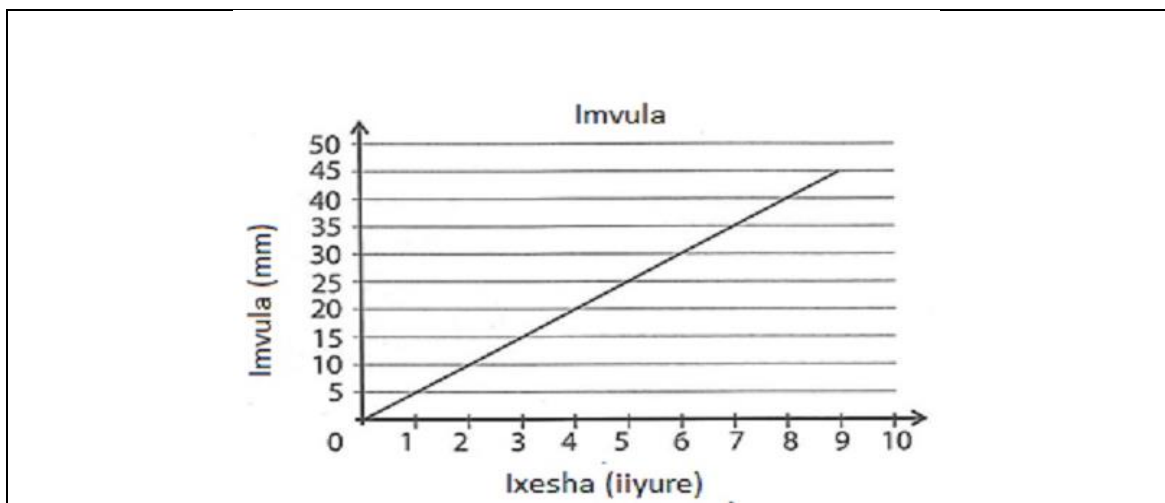
9.2  $\sqrt{c} \times a = \underline{\hspace{2cm}}$  (1)

10. Zingaphi izikwere ezineesayizi ezahlukeneyo (of different sizes) kule figa ilandelayo?



(2)

11. Igrafu engezantsi ibonisa imvula enileyo kwindawo ethile.



11.1 Yametwa ixesha elingakanani imvula eyanayo?

(1)

11.2 Ingakanani imvula eyanayo emva kweeyure ezi-5?

(1)

11.3 Ingaba olu luhlobano olumgca okanye olu ngekho mgca (linear or non-linear relationship)?

(1)

11.4 Qikelela (Predict) ukuba iyakubangakanani imvula enayo emva kweeyure ezili- 10. Xhasa impendulo yakho.

(2)



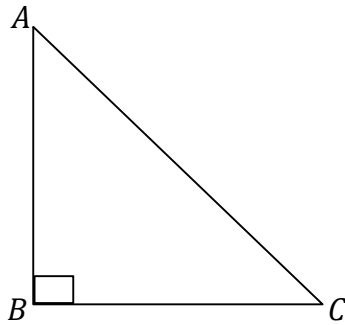
12. USipho usebenza iiyure ezisi -8 aze amkele i R920 ngosuku. Yimalini ayamkela ngeyure nganye?

\_\_\_\_\_

\_\_\_\_\_

(2)

13. Kwi-right-angled triangle engezantsi, uengile  $\hat{A} = 45^\circ$ , funa ubungakanani buka engile  $\hat{C}$  uze unike isizathu sempendulo yakho.

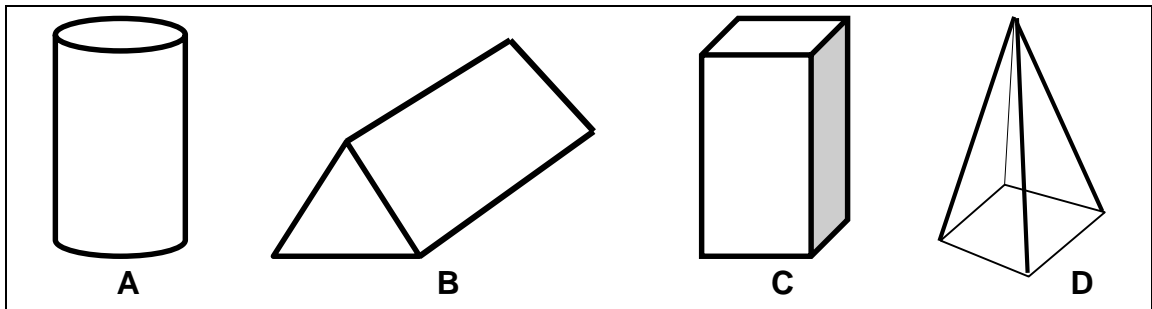


\_\_\_\_\_

\_\_\_\_\_

(2)

14. Sebenzisa ii-objekthi ezingezantsi ukuphendula imibuzo elandelayo.



14.1 Yeyiphi iobjekthi eyitrayendyula prizim? \_\_\_\_\_ (1)

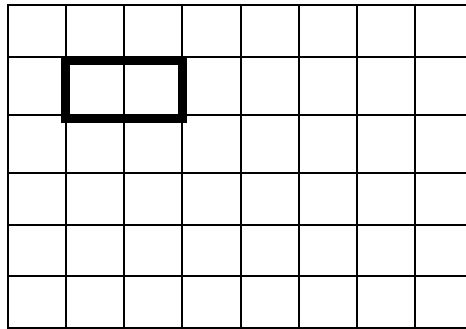
14.2 Nika iobjekthi eneveteki (vertices) eziyi 8 \_\_\_\_\_ (1)

14.3 Chonga iobjekthi enencam (ieyipekhs). \_\_\_\_\_ (1)

14.4 Yeyiphi iobjekthi enemiphetho (edges) ezimbini? \_\_\_\_\_ (1)

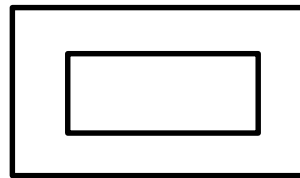
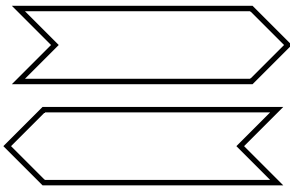
14.5 Nika igama le-objekthi u A. \_\_\_\_\_ (1)

15. Yandisa (Enlarge) imilo elandelayo ngefektha (by a factor) ka 2.



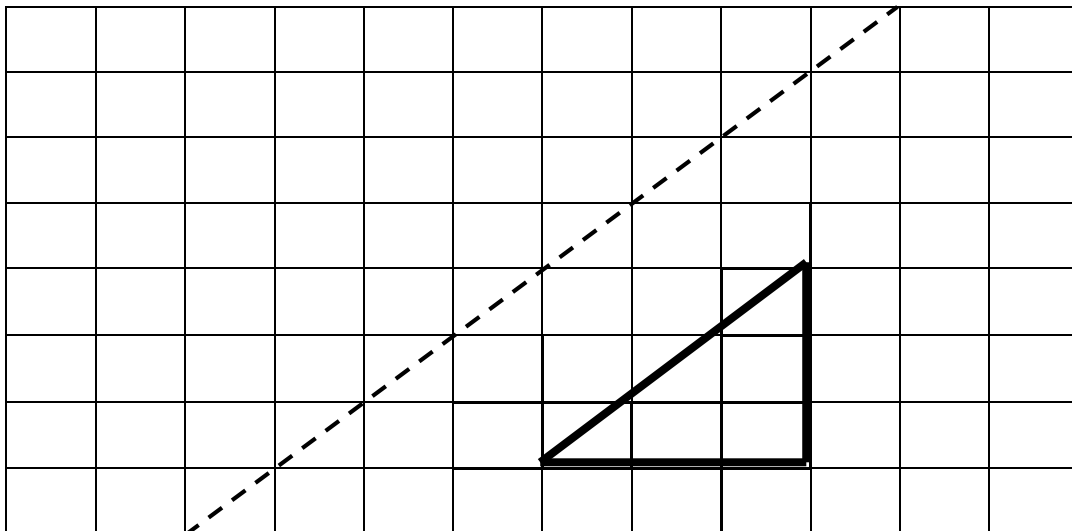
(2)

16. Qwalasela imilo ezilandelayo uze uchaze ukuba ziyafana okanye zikhongruwenti (similar or congruent).



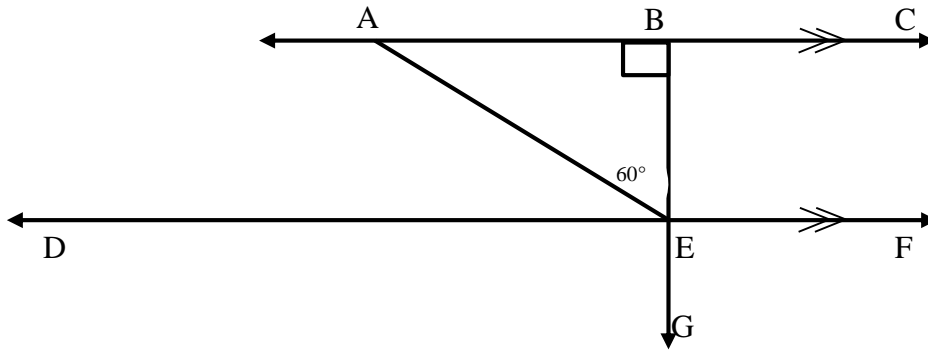
(2)

17. Riflektha itrayengile ekwiphepha legridi elingezantsi ngaphezu komgca wesipili (mirror line).



(2)

18. Qwalasela idayagram elandelayo uze uphendule imibuzo elandelayo.



18.1 Nika imigca ephephendityula: \_\_\_\_\_ (1)

18.2 Nika imigca epharaleli: \_\_\_\_\_ (1)

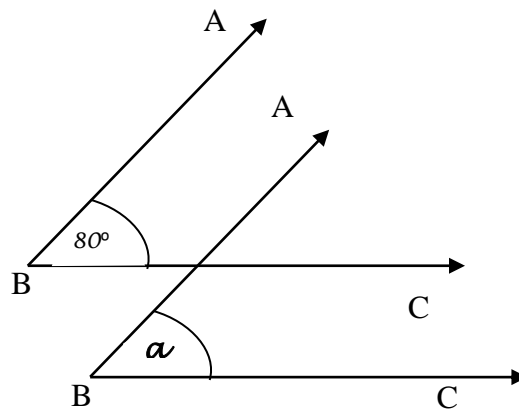
18.3 Ingakanani isayizi ka  $\hat{CBE}$ ? \_\_\_\_\_ (1)

18.4 Nika igama lika  $\hat{ABE}$ . \_\_\_\_\_ (1)

18.5 Funa u  $\hat{AED}$  uze unike isizathu (give reason) ngempendulo yakho. \_\_\_\_\_ (1)

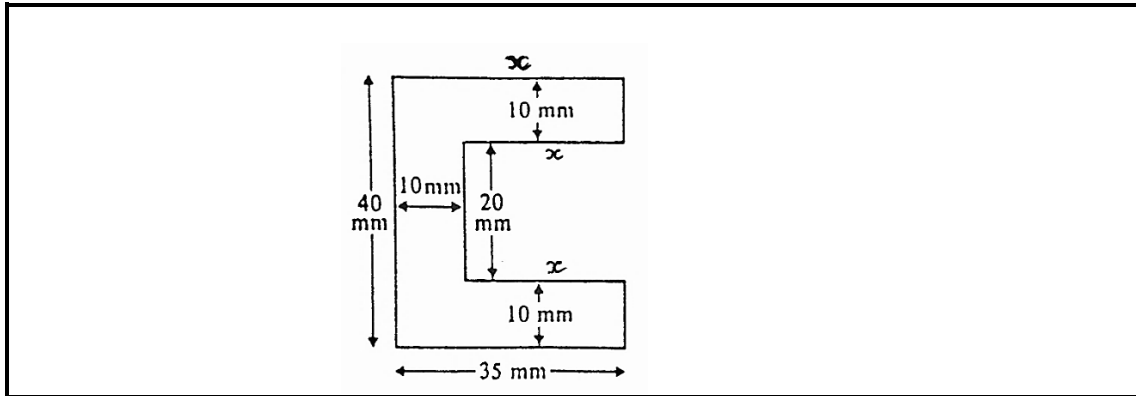
\_\_\_\_\_ (2)

19. UPatrick uslayidisa/utshebelezisa u  $\hat{ABC}$  njengoko eboniswe kwidayagram engezantsi. Nika ixabiso lika  $\alpha$ .



\_\_\_\_\_ (2)

20. Khalityhuleyitha iperimitha yefiga elandelayo.




---



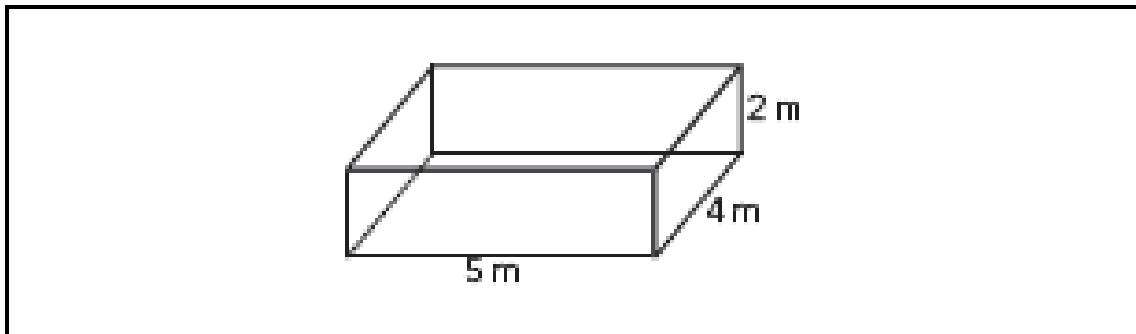
---



---

(2)

21. Umpeyinti kufuneka apeyinte amacala, umphezulu, kunye nomphantsi we-objekthi eqinileyo. Ibheysi yirekthengile engu 5 m ubude (ilengthi) ne 4 m ububanzi (ibredthi). Umphakamo (hayithi) bamacala ngu 2 m.



21.1 Funa ukuba ingakanani itotal sefeysi eriya (total surface area) ekufuneka ayipeyinte.

---



---



---

(4)

21.2 Zingaphi iilitha zepeyinti ekufuneka abenazo ukuba i1 ℓ yenza i 6 m<sup>2</sup>

---



---



---

(2)

22. Ityhubhu (A cube) inomphakamo (height) oyi 30 mm. Khaltyhuleyitha ivolyum yayo uze ubhale impendulo yakho ngeetyhubhikh sentimitha (cubic cm).

---

---

---

---

(4)

23.

<u>STEM</u>	<u>LEAF</u>
1	0 1 3 3 4
2	1 1 2 4 5 7 7 7
3	0 0 4 5 5 7 8

23.1 Bangaphi abafundi ababhale uvavanyo?

---

(1)

23.2 Funa iREYINJI (**RANGE**) yamanqaku.

---

(1)

23.3 Ingakanani ipesenti yabafundi abapase uvavanyo ukuba inqaku lokupasa ngu 50%?

---

---

(2)

23.4 Funa **IMINI (MEAN)**.

---

---

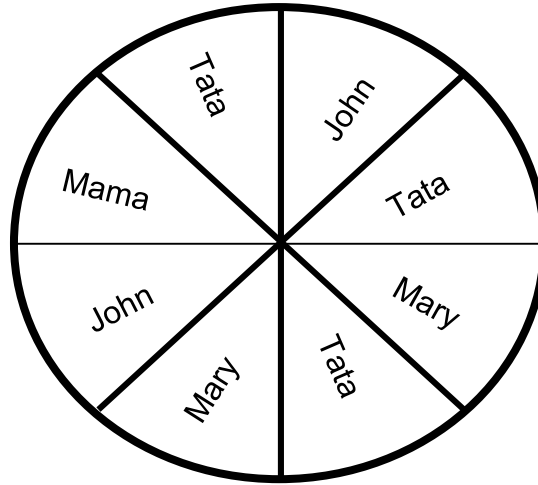
(2)

24. Idayisi elinamacala ayi 6 (six-sided dice) lijulwe phantsi. Ingakanani iprobhabhiliti yokufumana u siksi xa idayisi lijulwe phantsi?

---

(1)

25. Umama wathenga ikeyiki erawundi nge R80,00. Wahluhela usapho (ifemeli) ngolu hlobo lulandelayo:



- 25.1 Axabisa malini amaqhekeza eekeyiki zikatata?

\_\_\_\_\_ (1)

- 25.2 Ingakanani ipesenti yamaqhekeza eekeyiki zikaMary nomama?

\_\_\_\_\_ (1)

- 25.3 Ahlobana njani amaqhekeza oomama (female's pieces) kwawo tata (men's pieces)?

\_\_\_\_\_ (1)

**EWONKE: 100**



