



Province of the
EASTERN CAPE
EDUCATION

INTERMEDIATE PHASE

GRADE 6

JUNE 2011

MATHEMATICS FOR HEARING IMPAIRED

LEARNER'S NAME: _____

SCHOOL: _____

DISTRICT: _____

MARKS: 50

TIME: 1 hour (allow up to 10 minutes extra time)

This question paper has 8 pages.

INSTRUCTIONS AND INFORMATION

1. Answer all questions.
2. Write neatly and clearly.
3. Do not change numbering.
4. Show all your working details where necessary.
5. Do not use a calculator.

QUESTIONS

1. Find the value of x if $x - 25 = 57$.

_____ (1)

2. Fill in the missing number:

50,2 ; 49,8 ; 49,4 ; 49,0 ; ____ ; 48,2

_____ (1)

3. Write this number in digits:

Four million two hundred and eighty three thousand one hundred and seventy six

_____ (1)

4. Write the number 278 245 in expanded notation.

_____ (1)

5. Complete the equivalent fraction: $\frac{12}{24} = \frac{\quad}{\quad}$

_____ (1)

6. Round off 286 173 to the nearest:

6.1 5 _____ (1)

6.2 1000 _____ (1)

7. Write down the value of underlined digit:

7.1 5 701 896 _____ (1)

7.2 5 741 896 _____ (1)

8. Simplify the following:

8.1 $945\,671 + 26\,893$

_____ (2)

8.2
$$\begin{array}{r} 567\,432 \\ - 95\,238 \\ \hline \end{array}$$

_____ (1)

9. Mrs Mabena bakes 240 small cakes daily and packs them into plastic bags to sell in her spaza shop. Each plastic bag contains 6 small cakes.

9.1 How many plastic bags does she need to pack all the cakes?

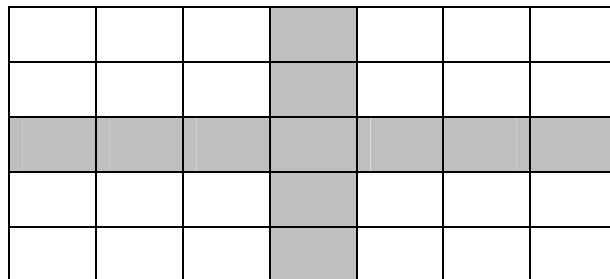
(1)

- 9.2 If she used R60 to make the small cakes and a packet of 6 cakes is sold for R3,00, calculate the profit/gain she makes if she sells all the cakes.

(2)

10. From the figure below, what **fraction** is the shaded part? _____

(1)



11. Amanda's father flies to Dallas, USA and the time there is 7 hours behind South African time. If the flight leaves South Africa at 06:45 on Monday, what time and day is it in Dallas?

(2)

12. Twelve (12) books cost R720,00. What will 7 books cost?

(2)

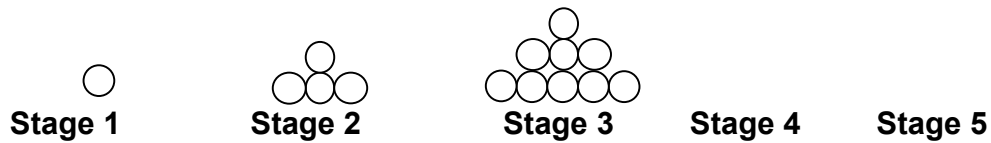
13. Simplify the following fraction: $5\frac{1}{4} + 3\frac{1}{5}$

(2)

14. Vikesh has 20 sweets. If he eats $\frac{1}{5}$ of them, how many sweets are left?

(2)

15. Study the pattern below:



| Stage | 1 | 2 | 3 | 4 | 5 | |
|-------------------|---|---|---|---|---|--|
| Number of circles | 1 | 4 | 9 | | | |

- 15.1 Draw the Stage 5 pattern.

_____ (1)

- 15.2 How many circles are used for stage 4?

_____ (1)

- 15.3 Write in your own words the rule for the pattern.

_____ (2)

- 15.4 At what stage will the pattern consist of 144 circles?

_____ (2)

16. Litha is carrying a 5ℓ bucket of water.

- 16.1 How many of these buckets can fill up a 200ℓ container?

_____ (1)

- 16.2 How many millilitres can fill up the 5ℓ bucket?

_____ (1)

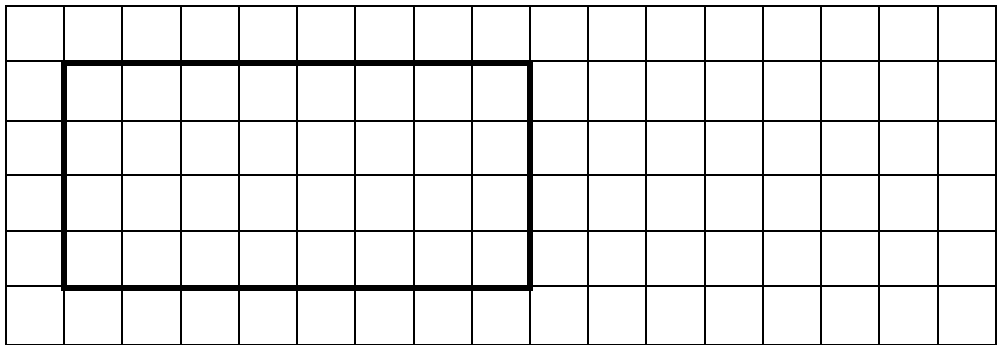
17. The school bus travels a distance of 6 km and 245 m to take learners to school. Write the distance in metres.

_____ (1)

18. Convert to kg: 35 467 g = _____ (1)

19. Study the diagram below:

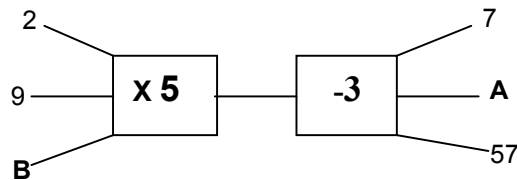
- 19.1 Redraw the rectangle on the same grid by halving its dimensions (sides).



(1)

- 19.2 How many squares are in the reduced rectangle? _____ (1)

- 20.



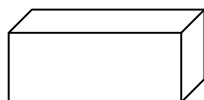
- 20.1 The value of A is _____ (1)

- 20.2 The value of B is _____ (1)

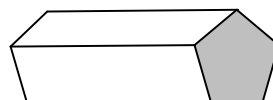
21. Study the following solid shapes:



A



B



C



D

- 21.1 Name shape C. _____ (1)

- 21.2 How many faces does shape B have? _____ (1)

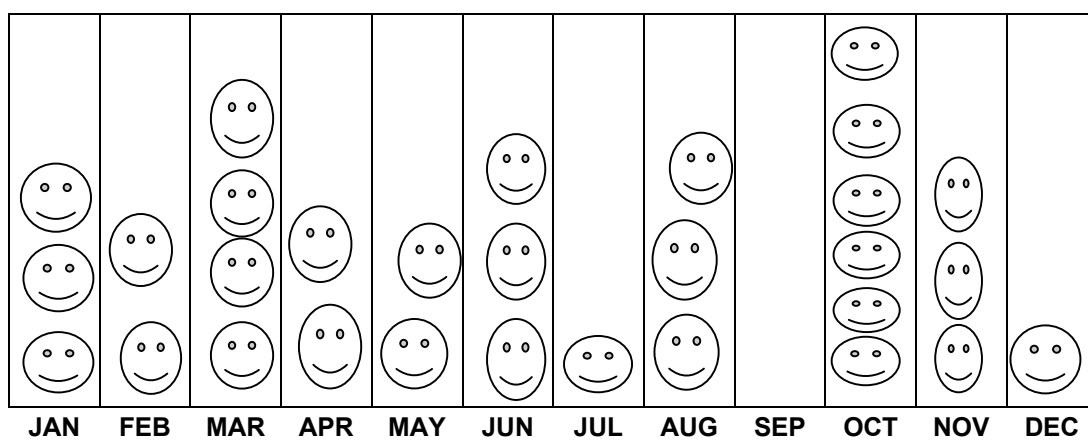
21.3 How many vertices does shape D have? _____ (1)

21.4 Sort all the shapes above according to pyramids and prisms (use the given letters for shapes).

Pyramids: _____ (1)

Prisms: _____ (1)

22. The following data represents Grade 6 learners' birthdays at Freedom Primary School:



In this picture graph, 1 face represents 5 learners.

22.1 Which month has the most birthdays? _____ (1)

22.2 Which month has 20 birthdays? _____ (1)

22.3 What is the mode in this pictograph (actual number of learners)? _____ (1)

22.4 What is the total number of Grade 6 learners at this school? _____ (2)

23. Complete the table below by filling the missing spaces.

| GRADE | Tallies | Frequency |
|-------|--------------------------------------|-----------|
| 6 A | <i> </i> | |
| 6 B | | 36 |

(2)

TOTAL: 50