



**Western Cape
Government**

Education

EXEMPLAR ITEMS

MATHEMATICS

GRADE 6

(ENGLISH)

NOTE

Exemplar items are not full question papers but rather items selected to give an indication of how specific concepts are covered in the test. These items would normally constitute a portion of items included in a full question paper. None of the items included are likely to be used in any future tests

The Systemic Tests cover FIVE areas. Sample items are examples of questions that can be expected in each of the areas.

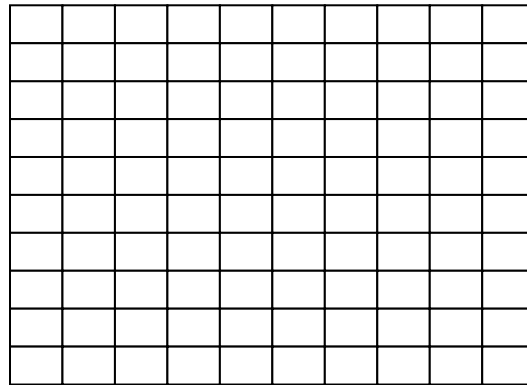
ALL QUESTIONS ARE 1 MARK EACH

NUMBERS

1. In which number row below are the decimal numbers in order from **smallest to biggest**?
 - a. 0,88; 8,88; 8,80; 8,08
 - b. 1,06; 1,67; 1,83; 2,12
 - c. 2,5; 2,08; 2,12; 2,20
 - d. 1,00; 10,00; 0,01; 0,001
2. Calculate:
 $2\frac{2}{12} - 1\frac{1}{3} = \underline{\hspace{2cm}}$
3. The underlined digit in **5 489** has the same value as ...
 - a. 8 units
 - b. 8 tens
 - c. 8 hundreds
 - d. 8 tenths
4. Round off **4 768** to the nearest five.

5. Cathy works 10 hours a day at a supermarket. She is paid R15 an hour. She works 28 days a month. Which statement best describes her monthly earnings?
 - a. More than R500 but less than R1 000
 - b. More than R1 750 but less than R2 500
 - c. More than R5 000 but less than R8 000
 - d. More than R3 000 but less than R4 500
6. Fill in the missing numbers:
 $10\frac{1}{2}$; 10; $\underline{\hspace{1cm}}$; $\underline{\hspace{1cm}}$; $8\frac{1}{2}$
7. Complete:
 $\underline{\hspace{1cm}}$; $\underline{\hspace{1cm}}$; 90; 90,5; 91

8. Use your pencil to shade in **20%** of the table.



9. This is the normal price of shirts at Pep Stores.



T-shirt

Price: R80



Long-sleeve shirt

Price: R90

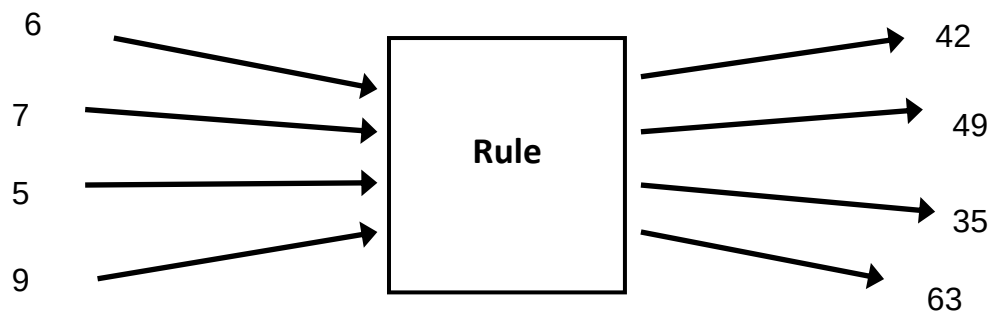
The T-shirt is on sale for a $\frac{1}{4}$ of its normal price. The long-sleeve shirt is on sale for a $\frac{1}{3}$ of its normal price.

Which shirt will be cheaper on the sale? Show your working.

10. Angela runs a 5 km race. How many metres had she run when she reached this sign?



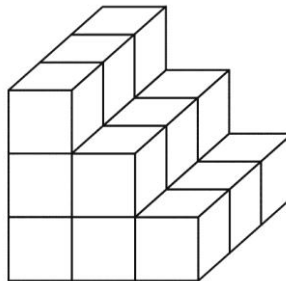
11. Write down the rule for the following:



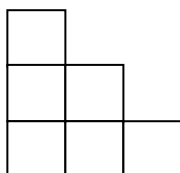
12. A car takes 6 hours to travel from Johannesburg to Durban. The distance travelled is 600 km. How many kilometres per hour does the car travel?

SPACE AND SHAPE

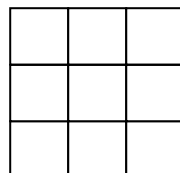
13. Consider the object below:



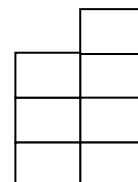
Which of the following pictures shows the top view of the object?



a.

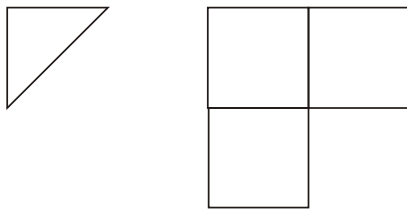


b.



c.

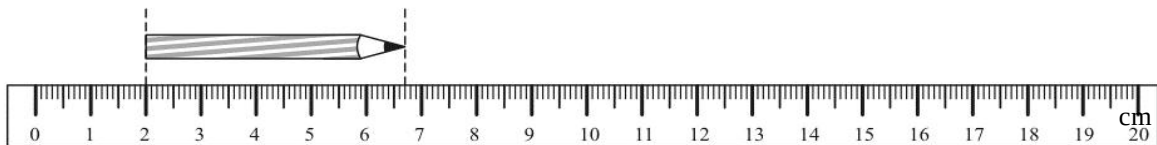
14. How many of these triangles will fit in the shape?



_____ triangles

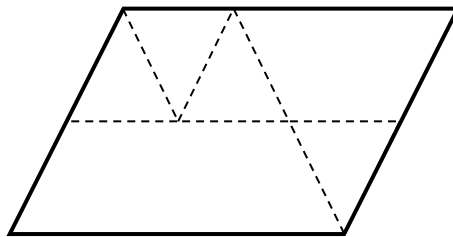
MEASUREMENT

15. What is the length of the pencil below in centimetres?



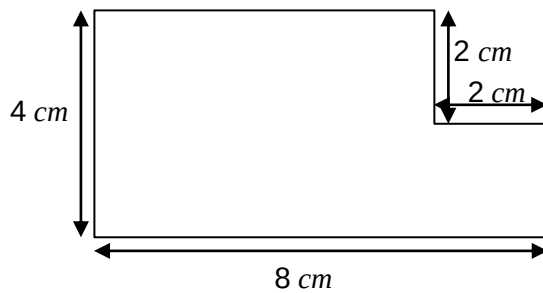
_____ cm

16. How many of these triangular tiles will you need to fully tile this parallelogram shape?



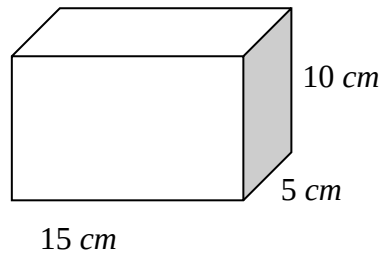
_____ triangles

17. Calculate the area of this shape.



_____ cm^2

18. Calculate the volume of this rectangular prism.



_____ cm^3

DATA

19. Read the sentence below.

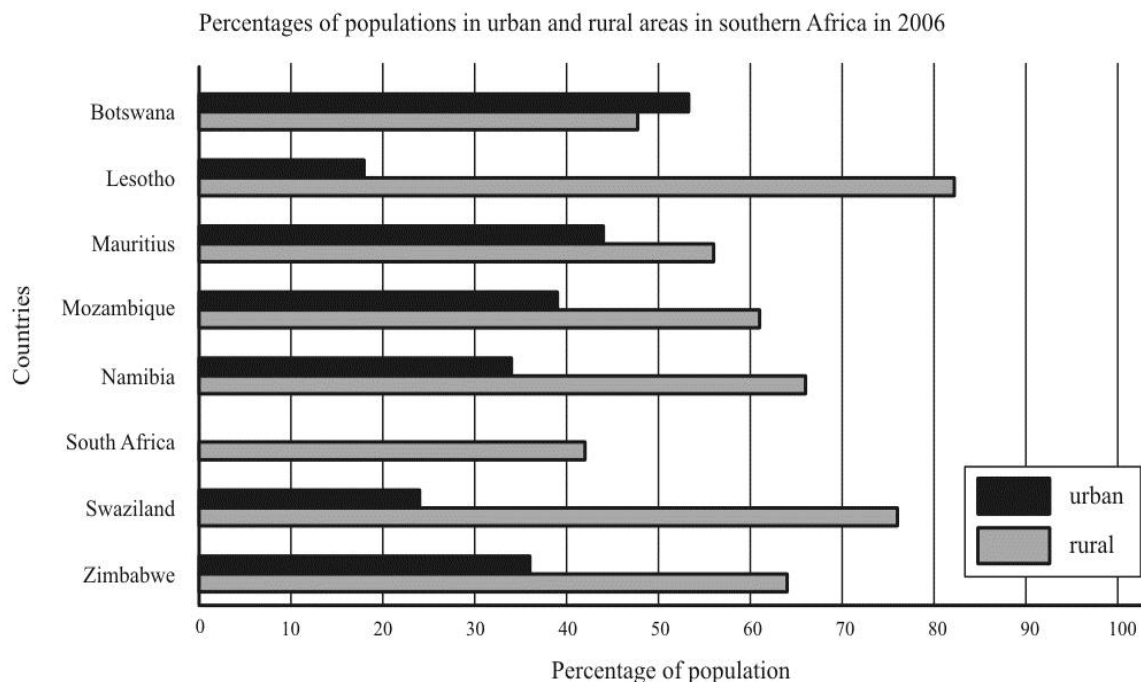
“He sees seven sleeping sheep”

Letter	Tally	Number
s		5
e	_____	_____

The number of **s**'s has been recorded for you.

Record the number of **e**'s in the same way in the spaces provided

For questions 20 to 23: Read the information in the graph and answer the questions below.



Source: African Development Bank, Statistics Pocketbook, 2006

20. Refer to the graph above. In 2006 in South Africa, 58% of people lived in urban areas. Draw a bar onto the graph above to show this information.
21. In which country, apart from South Africa did more people live in urban areas than in rural areas?
- _____
22. Compare the percentage of Lesotho's rural population to the percentage of South Africa's rural population. What is the percentage difference?
- a. 30% b. 40%
- c. 50% d. 60%

23. The country with the greatest percentage difference between rural and urban populations is Lesotho. Which answer below gives the best estimate for this percentage difference?
- a. 55% b. 65% c. 75% d. 85%

NUMBER PATTERN

24. What is the value of the 3 in this number?

6 309

- a. 3 b. 300 c. 30 d. 3 000

25. Use your pencil to shade in 0,5 of the shape below.



26. The teacher wrote this pattern on the board.
1,10; 1,15; 1,20; _____; _____

If this same pattern continues, what numbers should the teacher write in the blank spaces?

- a. 125; 130 b. 12,5; 12,0 c. 1,25; 1,30