



# basic education

Department:  
Basic Education  
**REPUBLIC OF SOUTH AFRICA**

**MARKS**

## ANNUAL NATIONAL ASSESSMENT 2012 GRADE 5 MATHEMATICS TEST

**MARKS: 60**

**TIME: 1½ hours**

**PROVINCE** \_\_\_\_\_

**REGION** \_\_\_\_\_

**DISTRICT** \_\_\_\_\_

**SCHOOL NAME** \_\_\_\_\_

**NATIONAL EMIS NUMBER (9 digits)**

--	--	--	--	--	--	--	--	--

**CLASS (e.g. 5A)** \_\_\_\_\_

**SURNAME** \_\_\_\_\_

**NAME** \_\_\_\_\_

**GENDER (✓)**

**BOY**

**GIRL**

**DATE OF BIRTH**

C	C	Y	Y	M	M	D	D
---	---	---	---	---	---	---	---



**This test consists of 13 pages, excluding the cover page.**

**Instructions to learners**

1. Read all the instructions carefully.
2. Question 1 consists of 5 multiple-choice questions. Circle the letter of the correct answer.
3. Answer Questions 2 to 25 in the spaces or frames provided.
4. Show all working on the question paper.
5. The test duration is 90 minutes.
6. The teacher will lead you through the practice exercise before you start the test.
7. You may not use a calculator.

**Practice exercise**

**Circle the letter of the correct answer.**

$$8 \times 6 =$$

- ☒ A 48  
B 84  
C 72  
D 60

You have answered the question correctly if you have circled A.

**NOTE:**

- You will answer more questions in the test like the one you have just completed.
- Do your best to answer each question even if you are not sure of the answer.
- Look only at your own work.

**The test starts on the next page.**

1. Circle the letter of the correct answer.

1.1 The simplest form of writing

$600\,000 + 400 + 20 + 50\,000 + 3 + 7\,000$  is:

A 647 253

B 657 423

C 654 325

D 674 253

(1)

1.2 Which number comes next in the number pattern 15 ; 25 ; 40 ; 60 ; ...?

A 70

B 75

C 80

D 85

(1)

1.3 Which number is 40 000 more than 54 562?

A 94 652

B 14 562

C 94 562

D 84 562

(1)

1.4 Convert 500 g to kilograms.

A 500 kg

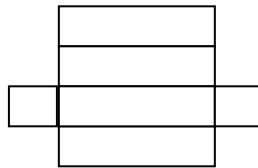
B 0,5 kg

C  $\frac{1}{5}$  kg

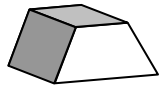
D 5 kg

(1)

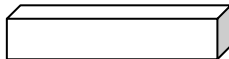
1.5 Which 3-D object can be made using this net?



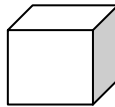
A



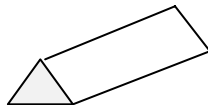
B



C



D



(1)

2. Complete:

2.1 29 624 rounded off to the nearest 10  $\approx$  \_\_\_\_\_ (1)

2.2 29 624 rounded off to the nearest 1 000  $\approx$  \_\_\_\_\_ (1)

3. For each number, write the value of the underlined digit.

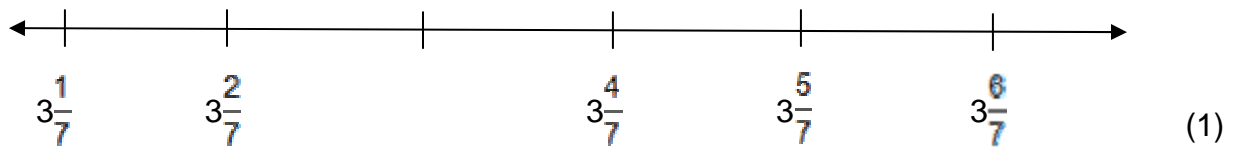
3.1 3 503 \_\_\_\_\_ (1)

3.2 3 503 \_\_\_\_\_ (1)

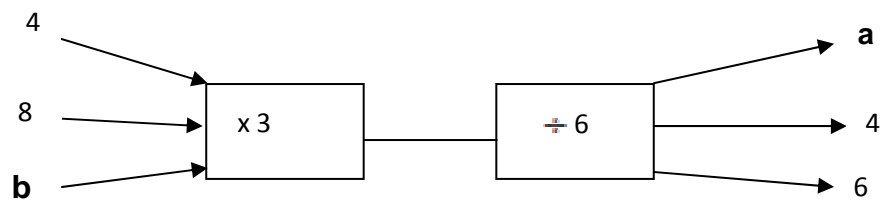
4. Write down the missing number.

$$\frac{3}{15} = \frac{\quad}{75} \quad (1)$$

5. Insert the missing fraction on the number line.



6. Write down the missing numbers in the flow chart.



6.1 a = \_\_\_\_\_ (1)

6.2 b = \_\_\_\_\_ (1)

7. Calculate the answers in Questions 7.1 to 7.6.

7.1

$$57\,436 + 23\,521$$

(2)

7.2

$$46\,436 - 26\,762$$

(2)

7.3

$$876 \times 64$$

(3)

7.4

$$756 \div 54$$

(2)

7.5

$$7\frac{1}{2} + 10\frac{1}{2} + \frac{3}{4}$$

(3)

7.6

If 23 158 people live in Mogale City and 25 249 people live in Sun Valley, how many more people live in Sun Valley than in Mogale City?

(2)

8. Complete the timetable of a bus.

Time of departure	Time of arrival	Time taken
Port Elizabeth 15:25	Johannesburg 16:35	_____
East London _____	Durban 14:15	1 hour 45 min.

(2)

9. Write down the answer.

1 century = \_\_\_\_\_ decades.

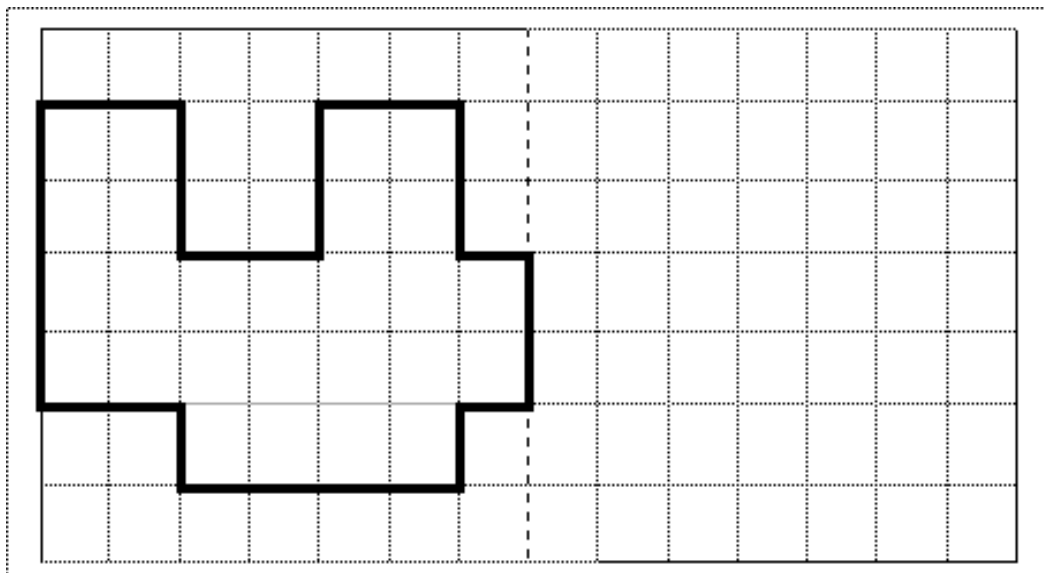
(1)

10. Draw the missing shape in the diagram pattern.



(1)

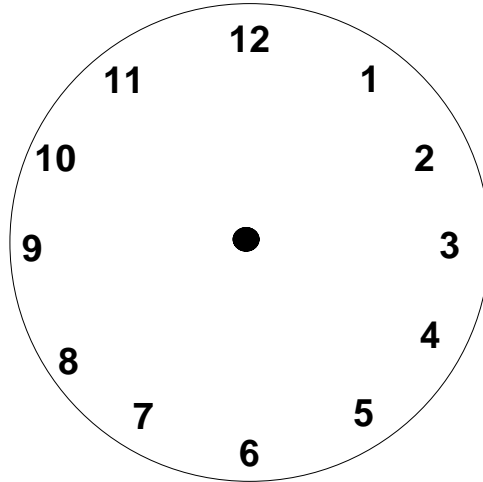
11. Draw a figure on the right-hand side of the dotted line so that it reflects the figure on the left-hand side of the dotted line.



(2)

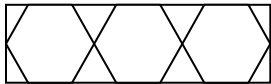


12. Draw the hour and minute hands on the clock face to match the time on the digital clock.



(2)

13. Which shapes are used in the given tessellation?



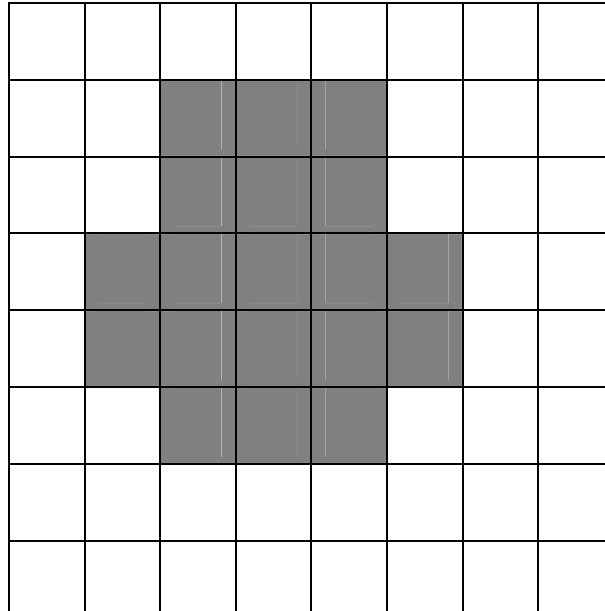
\_\_\_\_\_ and \_\_\_\_\_

(2)

14. A car drives at an average speed of 80 km/h. How far will it travel in 6 hours?

(2)

15. Determine the area of the shaded part covered by the squares on the grid.  
Each block is 1 cm by 1 cm.



Area = \_\_\_\_\_ (1)

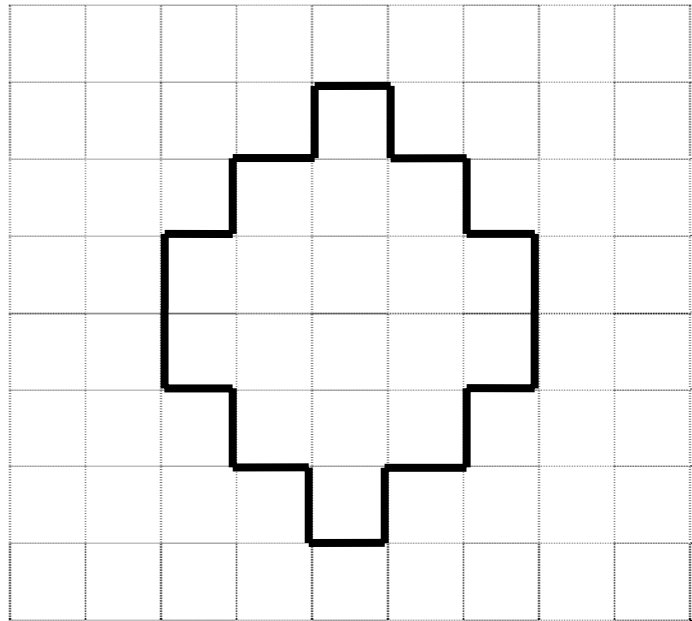
16. Complete:

4 kg 557 g = \_\_\_\_\_ kg (1)

17. 40 learners are going on a tour. The ratio of the number of boys to the number of girls is 3 : 2. How many boys are there in the group?

(2)

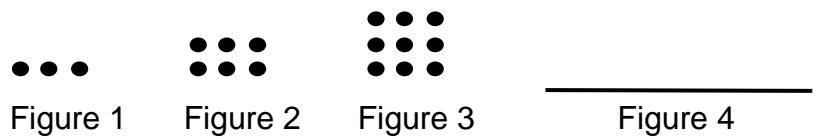
18. Draw the lines of symmetry in the outlined shape below.



(2)

19. Answer the following:

19.1 Draw figure 4 in the pattern of dots.



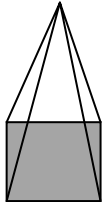
(1)

19.2 How many dots will there be in Figure 6 if the pattern is continued?

(1)

\_\_\_\_\_

20. Complete the table below.

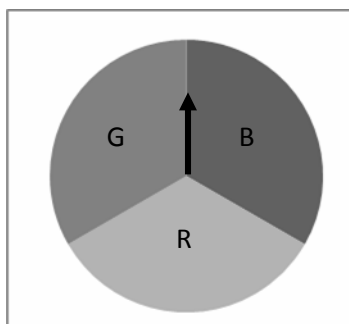
	Name of 3-D object	Number of faces

(2)

21. 250 ml of Oros syrup when mixed with water, makes 1 litre of Oros juice. How many litres of Oros syrup do I need to make 5 litres of Oros juice?

(2)

22.



Anne has a spinner with a green, red and blue section.

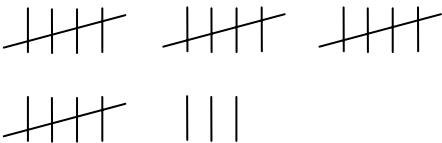
Choose a word(s) from the list below to say what the chances are of the pointer landing on the following:

impossible	possible	50/50 chance
------------	----------	--------------

22.1 a blue section \_\_\_\_\_ (1)

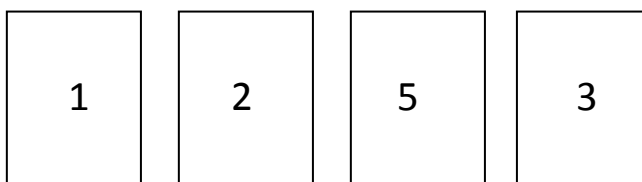
22.2 a pink section \_\_\_\_\_ (1)

23. In a Grade 5 class, there are 37 learners. 23 learners are girls. Work out how many boys there are and complete the table.

LEARNERS	TALLY MARKS	TOTAL
Girls		23
Boys		

(2)

24. Shereez has 4 numbered cards. How many different 2-digit numbers can she make with the 4 cards?



(2)

25. The ship in the grid below starts its journey at position A8.




25.1 Use the grid to write down the coordinates of each new position of the ship.

Position (a) \_\_\_\_\_

(1)

Position (b) \_\_\_\_\_

(1)

	1	2	3	4	5	6	7	8	9	10
A								 <b>S</b> tart		
B	 (a)									
C										
D										
E										
F										
G										
H						 (b)				
I										
J										

25.2 From position (b) the ship sails 3 spaces to the right and 2 spaces down. Write down the coordinates of its end position.

\_\_\_\_\_

(1)

**TOTAL: 60**