education

Department of Education
FREE STATE PROVINCE

SURNAME:			___ **60**
NAME:			
SCHOOL:			%
GRADE 6 _____	**BOY (MARK WITH X)**	**GIRL (MARK WITH X)**	Level:

GRADE 6

MATHEMATICS MOCK TEST

___JUNE 2025

TIME: 90 MINUTES

MARKS: 60

This question paper consists of 10 pages

INSTRUCTIONS

1. Read ALL the questions carefully.
2. Answer ALL the questions in the spaces or frames provided.
3. ALL calculations must be shown on the question paper.
4. You are NOT allowed to use a calculator.

Practice exercise: Multiple choice question.

Question 1
Circle the letter of the correct answer.

1. Which number is next in the following pattern?

   81; 27; 9; 3; ____

A. 0
B. 1
C. $\frac{1}{3}$
D. $\frac{2}{3}$

You answered correctly if you circled (B) above.

QUESTION 1

Circle the letter of the correct answer.

1.1 794 391 rounded off to the nearest 5 is: (1)

A 794 390
B 794 395
C 794 300
D 794 310

1.2 What is the missing number in the number sentence? (1)

$5 + 20 \times 2 = \Delta \div 3$

A 15
B 45
C 100
D 135

1.3 Which number sentence is represented by the statement? A certain number multiplied by two is equal to fifteen subtract three. (1)

A $\Delta + 2 = 15$
B $\Delta \times 2 = 15 - 3$
C $15 - 2 = \Delta$
D $15 \times 2 - 5 = \Delta$

1.4 Which fraction is equivalent to $\frac{3}{4}$? (1)

A $\frac{8}{16}$
B $\frac{12}{16}$
C $\frac{4}{8}$
D $\frac{3}{12}$

1.5 Which number is an odd prime number less than 10? (1)

A 11
B 9
C 5
D 2

1.6 Which number will make the following number sentence true? (1)

$742 + 1\,258 = 3\,350 - \Delta$

A 2 000
B 1 550
C 1 350
D 742

1.7 Double a certain number added to nine is equals to twenty-five. Calculate the number. (1)

A 13
B 5
C 25
D 8

1.8 What is the place value of the underlined digit in 479,<u>5</u>9 ÷ 10 in the answer? (1)

A Units
B Tens
C Hundredths
D Thousandths

1.9 What is the value of the underlined digit in 7<u>4</u>1,24 × 100 in the answer? (1)

A 40
B 4
C 4 000
D 400

1.10 What is the sum of seven halves? (1)

A $7\frac{1}{2}$
B $1\frac{2}{7}$
C $2\frac{1}{7}$
D $3\frac{1}{2}$

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QUESTION 2

2.1 Fill in $>; <or =$

2.1.1 712×10_____$7,12 \times 10 \times 10$ (1)

2.1.2 $\frac{2}{6}$ _____ $\frac{2}{5}$ (1)

2.1.3 $\frac{21}{42}$ _____ $\frac{9}{18}$ (1)

2.2 Study the decimal fractions below and answer the questions.

8,**<u>6</u>**7

2.2.1 What is the place value of the underlined digit? (1)

2.2.2 What is the value of the underlined digit? (1)

2.3 Calculate an even prime number multiplied by 712 (2)

2.4 Draw any diagram to represent the following

2.4.1 $\frac{12}{18}$ (1)

2.4.2 75% (1)

2.5 There are three apples for every four pears, calculate how many apples and pears are in the basket if there are fifty-six apples and pears altogether. (3)

2.6 In a test Sihle scores 40% in a test with a total of 50. John scores 15 out of 25 in a test.

2.6.1 How many marks did Sihle get on the test? (2)

2.6.2 What percentage did John score in the test? (2)

2.6.3 Who did the best in the respective tests? _____ (1)

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QUESTION 3

3.1 Calculate using any method:

3.1.1 74 536 + _____ = 89 525 (2)

3.1.2 $78\,342 - _____ = 623$ (2)

3.1.3 The sum of three different prime numbers is equal to 30. Calculate the three prime numbers if the product of two of these prime numbers is 115. (2)

3.1.4 $84\,952 \times 73 = _____$ (3)

3.1.5 $87\,275 \div 25 =$ _____ (4)

3.1.6 When Anna was twelve years, Pulane was double her age. If Anna is fourty eight, how old is Pulane? (3)

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QUESTION 4

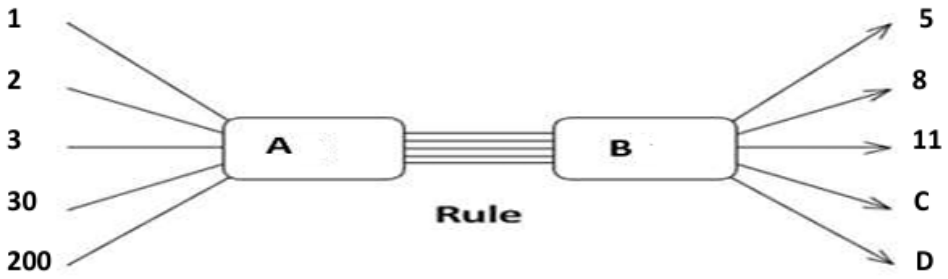
4.1 The product of two different numbers equals forty-two. The sum of the two numbers equals thirteen. What are the two numbers? (2)

4.2 In twenty-five days, Edith earns eighteen thousand, five – hundred and twenty-five rand. Calculate how much money she earns in two days. (3)

4.3 Judith earns R 250 for one hour. Her earnings increased by thirty percent. Calculate her earnings after the increment for three hours. (2)

4.4 Eight shirts cost six hundred and forty rands. How much will Sally pay for 15 shirts? (3)

4.5 Answer the following questions about the flow diagram below:



Fill in all the missing numbers

4.5.1 A: _____ (1)

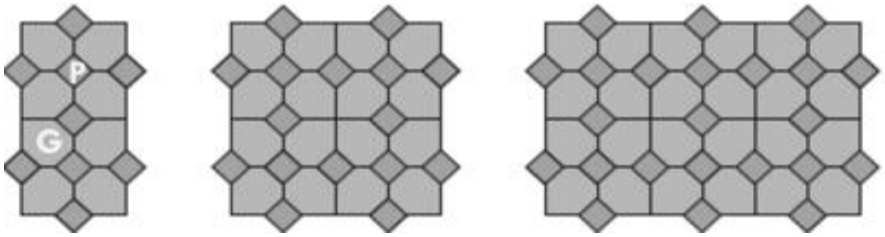
4.5.2 B: _____ (1)

4.5.3 C: _____ (1)

4.5.4 D: _____ (1)

4.6 Answer the questions based on the following pattern.

Size 1 **Size 2** **Size 3**



4.6.1 Complete the following table (2)

Size	**1**	**2**	**3**	**4**
No of big tiles	8	16	24	
No. of small tiles	9	16	23	

4.6.2 How many small tiles will be in size 20? (1)

_____

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TOTAL [60]