education

Department of Education
FREE STATE PROVINCE

SURNAME:			____ 60
NAME:			
SCHOOL: **PARYS PRIMARY SCHOOL**			**%**
GRADE 7 E	**BOY (mark with X)**	**GIRL (mark with X)**	**LEVEL: ___**

Question:	**1**	**2**	**3**	**4**	**5**	**6**
Total marks:	**10**	**10**	**10**	**9**	**12**	**9**
Marks obtained:						

GRADE 7
MATHEMATICS
EXAM Paper
JUNE 2025

TIME: **90 minutes / 1½ hour**
MARKS: **60**

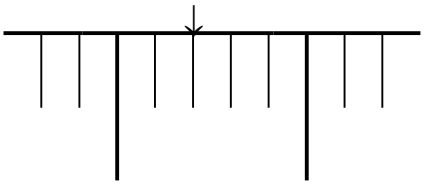
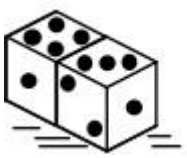
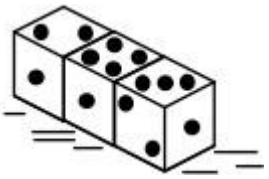
INSTRUCTIONS:

1. Read ALL 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.
5. You may use any mathematically correct method.
6. Write neatly and legibly.

This question paper consists of 8 pages.

QUESTION 1:

Write the correct answer in the column provided.

		Answer:	
1.1	Calculate: 10 + 14 x 3 – 10 is equal to...		(1)
1.2	The value of the 3 in 127,34 is:		(1)
1.3	What is the number indicated by A on the ruler? A  4,01 4,02		(2)
1.4	The square numbers smaller / less than 20 are:		(1)
1.5	The square root of 100 =		(1)
1.6	When 2 019 is divided by 10, the remainder is…		(1)
1.7	If $x - 21 = -53$, then $x = \cdots$		(1)
1.8	If we place dice side by side in a row on a table, only some of the faces are visible: With 2 dice in the row 8 faces are visible. With 3 dice in the row 11 faces are visible, etc. If 50 faces are visible, how many dice are there in the row?  		(2)

[10]

QUESTION 2:
Calculate the following:

2.1 $8\,245 \times 623 =$ _____ (3)

2.2 Mrs. Jones pays R200 for a book which she marks up to provide 20% profit. She then sells it for cash at 5% discount. Calculate the selling price of the book. (3)

2.3 Calculate the percentage increase if the petrol price has increased from R16,00 per litre to R18,00 per litre. (2)

2.4 $\frac{2}{3} + \frac{1}{4}$ (2)

[10]

QUESTION 3:
Calculate:

3.1 100^0 = _____ (1)

3.2 $\frac{30 - 4 \times \sqrt{9}}{(\sqrt[3]{64} - 1)^2}$ (3)

3.3 Sipho is an entrepreneur who produces clothes and sells them. He needs to make four new shirts. He uses 1,3 m of material for each shirt. There is only 3,5 m of the material left on the roll. Calculate how much more material Sipho will need. (3)

_____

_____

_____

_____

3.4 Thabo saves money over a period of three months:
Month 1: R125,75 Month 2: R98,50 Month 3: R150,25

3.4.1 He wants to buy a bicycle costing R420,00. Does he have enough money for the bicycle? Show your calculations for YES or NO. (1)

_____

_____

_____

_____

_____

3.4.2 If not, how much more money does Thabo need? (1)

_____

_____

_____

3.5 Round 534 210,918 off to the nearest hundredths. _____ (1)

[10]

QUESTION 4:

4.1 Complete the number sequence below: (1)

+4; +2; 0; _____; _____; _____

4.2 Calculate: –12 + 15 – (– 13) (2)

4.3 The temperature is 8ºC. If it drops by 10ºC and later registers another decrease of 2ºC, what is the reading on the thermometer now? (2)

4.4 Fill in < ; > or = to make these sentences true:

4.4.1 –12 _____ 12 (1)

4.4.2 –100 _____ –100 (1)

4.5 Tshepiso`s bank account had a balance of –R750 (he was overdrawn).
Over the week:
- he deposited R500 from his allowance.
- he withdrew R200 to buy groceries.
- the bank charged him a R50 fee for being overdrawn.
- his mother transferred R300 into his account to help him.

4.5.1 What is Tshepiso`s final balance after these transactions? (1)

_____

_____

4.5.2 How much more money does Tshepiso need to deposit to have a positive account balance of R100? (1)

_____

[9]

QUESTION 5:

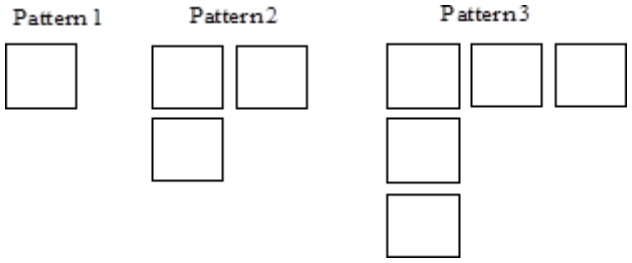
5.1 Extend he following pattern by writing down the next three terms: (1)

100; 91; 82; 73; _____; _____; _____

5.2 Describe the rule of the above pattern in your own words. (1)

_____

5.3. The pattern below shows blocks being arranged to form an L-shape.



Use the above diagram to complete the following:

Figure: / Pattern: (x)	1	2	3	10	**B**	50
Number of squares: (y)	1	3	5	**A**	29	99
Number of sides: (z)	4	12	20	76	116	**C**

A = _____ (1)

B = _____ (1)

C = _____ (1)

5.4 A tile pattern is designed so that:

- Design 1: 5 tiles
- Design 2: 9 tiles
- Design 3: 13 tiles … and so on.

5.4.1 Write down the rule for the number of tiles needed in the nth design by completing the following: Tn = 4n + _____ (1)

5.4.2 How many tiles are needed for Design 10? (2)

T10 = 4(_____) + 1 = _____

5.4.3 If a design uses 41 tiles, which design number is it? (2)

5.4.4 If each tile costs R2,50, calculate the total cost for the first 5 designs. (2)

[12]

QUESTION 6:

6.1 Use the rule to complete the table below, show all your calculations:

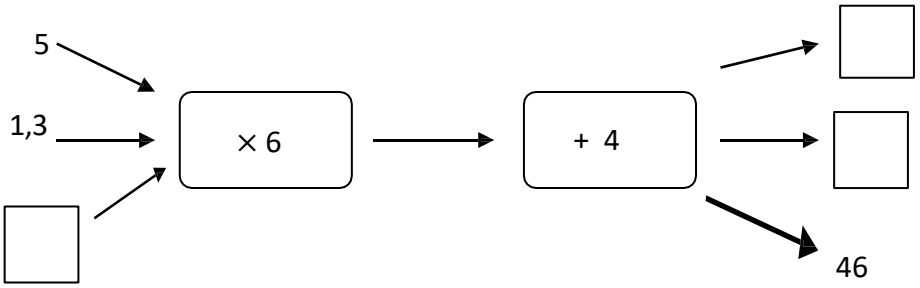
Rule: $y = 2x - 6$

Input (x)	8	18	29	**B =**	121
Output (y)	10	30	**A =**	88	236

A = (1)

B = (2)

6.2 Complete the following flow diagram: (3)



6.3 There are a total of seven bicycles and tricycles altogether at a bike shop. They have a total of 19 wheels. How many bicycles are there? (3)

[9]

Total: 60 marks