SET 1 **MODEL QUESTION PAPER** MA-7/1

SECOND TERM SUMMATIVE ASSESSMENT 2026-27

MATHEMATICS

Standard : 7 **Time : 2 Hrs 15 Minutes**

Instructions

- First 15 minutes is allotted as cool-off time. Read the questions carefully and plan the answers during this time.
- Answer all six questions. Answer all the sub questions.
- Questions 1 and 6 have two parts (A & B). Attempt any one of them (1A or 1B and 6A or 6B).

Question 1 has two parts (1A and 1B). Answer any one.

1.A. A rope 72 metres long is cut into two pieces in the ratio 5 : 3.

a. What is the length of each piece?

b. What part of the longer piece is the shorter piece?

c. If the same rope is cut in the ratio 7 : 2, what will be the length of the shorter piece?

d. The width of a table top is 3/4 metre and its length is 1/2 metre. Which of the following is correct?

A. Width and length are in the ratio 2 : 3.

B. Width and length are in the ratio 3 : 2.

C. Width and length are in the ratio 3 : 4.

D. Width and length are in the ratio 1 : 2.

OR

1.B. In a class there are 24 girls and 18 boys.

a. What is the ratio of the number of girls to the number of boys, in the simplest form?

b. The number of boys is what part of the number of girls?

c. If 6 more boys join the class, what will be the new ratio of girls to boys?

d. Which of the following ratios is equal to 4 : 3?

A. 8 : 9 B. 12 : 9 C. 16 : 9 D. 3 : 4

2. Look at the product given below.

$$2 \times 2 \times 2 \times 2 \times 2 \times 2$$

a. Write this product as a power of 2. What is its value?

b. Write the same number as a power of 4 and as a power of 8.

c. Which is larger: 2^5 or 5^2? How much larger?

d. Find the value of 3^4 and 10^4.

3. Some numbers and their factors are being studied.

a. Write all the factors of 36.

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b. How many factors does 36 have? Write two more numbers having an odd number of factors.

c. Write the numbers between 10 and 30 that have exactly two factors.

d. Add all the factors of 28 except 28. What do you notice? What is such a number called?

4. Ammu's age is x years. Her brother is 3 years older than her. Her father's age is 4 times Ammu's age.

a. Write the age of her brother and her father using x.

b. If Ammu is 9 years old, find the ages of her brother and father.

c. Write the statement given below using letters:

"When a number is multiplied by 6 and 6 is added, we get 6 times one more than the number."

d. Which of the following is equal to $x - (y - z)$?

A. $x - y - z$ B. $x + y - z$ C. $x - y + z$ D. $x + y + z$

e. Do the following mentally. Write the method used: $375 + 99$

5. Answer the following.

a. Three times a number added to 5 gives 26. What is the number?

b. The perimeter of a square is 48 centimetres. Write the relation between the side s and the perimeter, and find s.

c. The sum of three consecutive natural numbers is 48. Find the numbers.

d. Is $20 - (8 + 5)$ and $20 - 8 - 5$ the same? Write the steps of calculation.

e. Write $(a + b) \times c = a \times c + b \times c$ in ordinary language.

Question 6 has two parts (6A and 6B). Answer any one.

6.A. The price of 1 kilogram of rice is 42.50 rupees.

a. What is the price of 3.5 kilograms of rice?

b. Ravi paid 212.50 rupees for rice. How many kilograms of rice did he buy?

c. Which of the following is equal to 1.25×0.4?

A. 5 B. 0.5 C. 0.05 D. 50

d. Find 0.75×100 and $0.75 \div 100$.

OR

6.B. The length of a rectangle is 7.5 centimetres and its breadth is 4.2 centimetres.

a. Find the perimeter of the rectangle.

b. Find the area of the rectangle.

c. Which of the following is equal to 0.36×1.5?

A. 5.4 B. 0.54 C. 0.054 D. 54

d. The perimeter of a square is 18.4 centimetres. What is the length of one side?

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