

FORM 1 MATHEMATICS TEST 1

2025 – 2026

Time Allowed: 30 minutes

Marks _____ / 30

Section A: Multiple Choice Questions (6 marks)

Write your answers in the table provided on page 2.

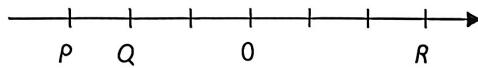
1. $2.6 \times \left\{ \left[1.8 - \left(\frac{6}{5} + 0.1 \right) \right] \times \frac{1}{2} \right\} =$

- A. 1.75
- B. 0.95
- C. 0.65
- D. 0.13

2. Simplify the algebraic expression $-4m - 5(3 + 2m)$.

- A. $-14m - 15$
- B. $-12m - 15$
- C. $2m - 15$
- D. $6m - 15$

3. Refer to the number line below.



Which of the following is correct?

- A. $P > Q$
- B. $R < 0$
- C. $Q > 0$
- D. $R > P$

4. Represent the word phrase 'subtract the product of 4 and q from p , and then divide the result by the sum of p and q ' by an algebraic expression.

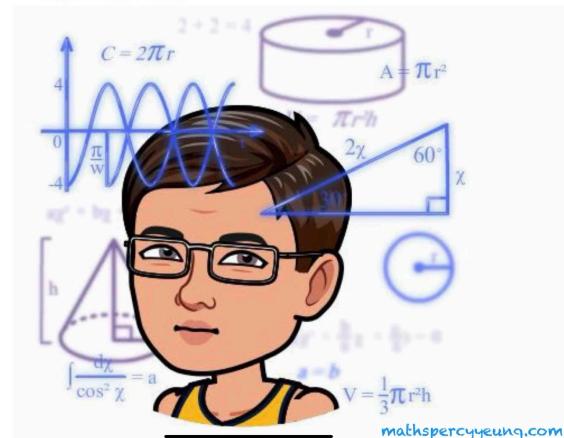
A. $\frac{4(p-q)}{p+q}$



B. $\frac{p-4q}{p+q}$

C. $\frac{4q-p}{p+q}$

D. $\frac{p+q}{p-4q}$



5. Find the LCM of $2 \times 5^2 \times 11$ and $2^2 \times 5^4$.

A. 50
B. 2500
C. 6875
D. 27500

6. Which of the following is divisible by both 6 and 8 ?

A. 2322
B. 4840
C. 5560
D. 8616

Choose the most suitable answer and write your answers in the table below.

1	2	3	4	5	6

Section B: Short Questions (24 marks)

Show all your working steps.

1. Simplify the following expressions.
 - (a) $(2x + 3y - 5) - (3y + 4x - 2)$
 - (b) $8 \times p \times 7q + 5p \times (-2) \times 2q$

2. For the algebraic expression $y - 5 + 3x + 2v - 4x^2 - 5y + 8$, write down
(a) all the constant terms,
(b) all sets of like terms. (3 marks)

3. Evaluate the following expressions. (5 marks)

$$(a) \quad (-9) \times \left(-\frac{7}{18}\right) \div \left(-\frac{21}{4}\right)$$

$$(b) \quad \frac{122}{(-7) \div (-5.2)} \div \left[(-4) \times \frac{1}{2} \right]$$

4. Solve the following equations.

(6 marks)

$$(a) \quad \frac{6-9b}{2} = -6$$

$$(b) \quad \frac{2b+1}{14} = 5 - \frac{3-b}{4}$$

5. A metal wire of 92 cm is cut into two parts. The length of the shorter part is y cm. The two parts are bent into two squares. The side length of the larger square is 3 cm longer than that of the smaller square. Find the side length of the smaller square.

(5 marks)

OPTIONAL

Section C: Challenging Question (3 marks)

Mr Chan is going to pack some biscuits into bags. He finds that

- (1) if each bag contains 8, 12 or 18 pieces, then 1 piece is left;
- (2) if each bag contains 7 pieces, there are no biscuits left.

Find the minimum possible number of biscuits inside the bag.

(Show your steps with explanation)

End of Paper