

## 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.

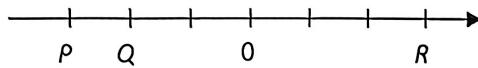
1.  $2.6 \times \left\{ \left[ 1.8 - \left( \frac{6}{5} + 0.1 \right) \right] \times \frac{1}{2} \right\} =$

- 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.

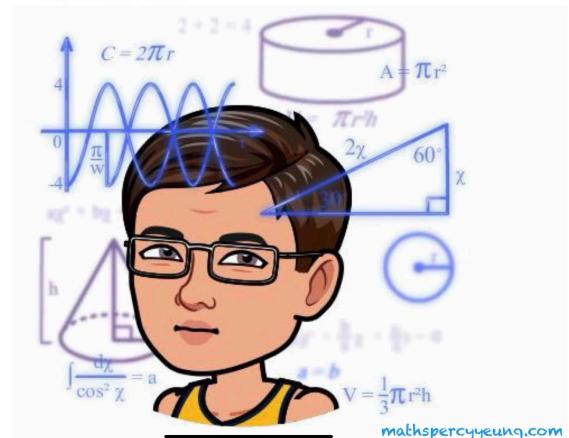


Which of the following is correct?

- 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)

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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**

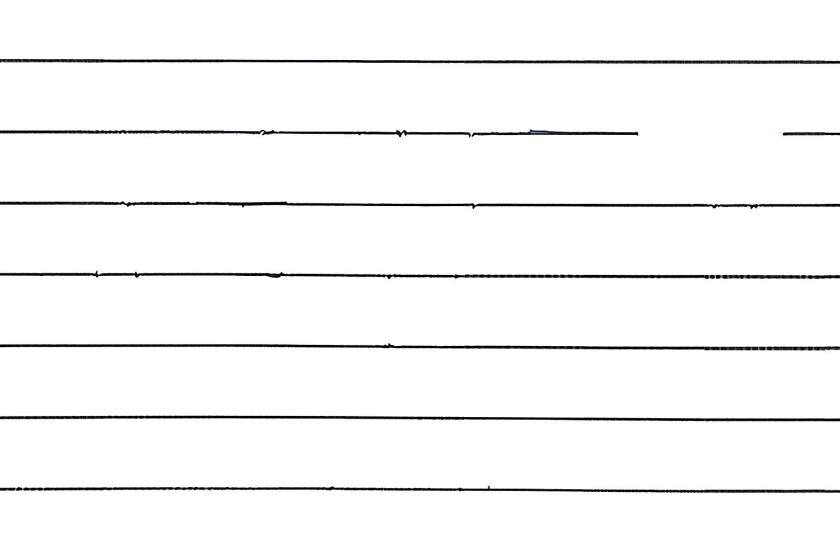
**Section C: Challenging Question (3 marks)**

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)



Handwriting practice lines consisting of ten horizontal lines for practicing letter formation and alignment.

End of Paper