

FORM 1 MATHEMATICS TEST 1
2025 – 2026

Time Allowed: 30 minutes

Mark: _____ / 30

Section A: Multiple Choice Questions (6 marks)

Write your answers in the table provided on page 2.

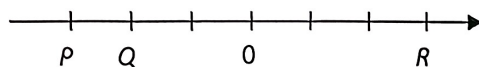
1. $2.6 \times \left[\left(1.8 - \left(\frac{6}{5} + 0.1 \right) \right) \times \frac{1}{2} \right] =$

- 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.

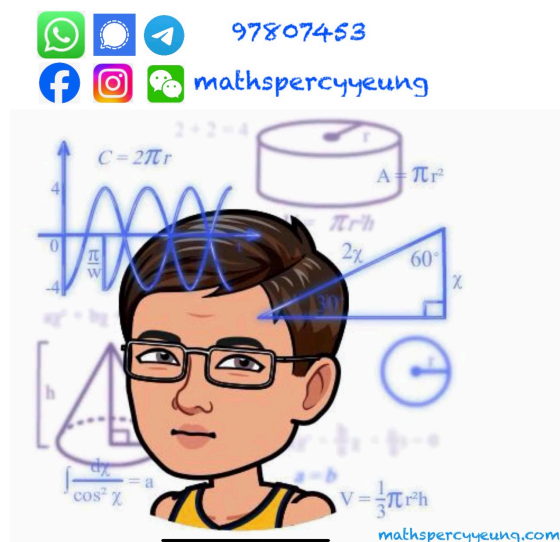


Which of the following is correct?

- 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) $8 \times p \times 7q + 5p \times (-2) \times 2q$

(5 marks)

-
-
-
-
-

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

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears slightly aged or off-white. There is no handwriting or other markings on the page.

(6 marks)

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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

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)

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears slightly aged or off-white. There is no handwriting or other markings on the page.

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