LSC F1 First Term UT1 2025-26

S1 Mathematics

First Term 1st Uniform Test 2025 – 2026

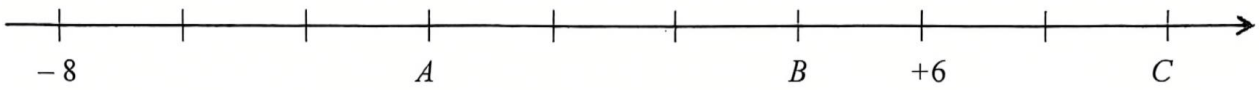
Time Allowed: 30 minutes

Name : _____ ( ) Class : 1 ____ Marks :_____/ 30

Attempt ALL questions. Unless otherwise specified, all working must be clearly shown.

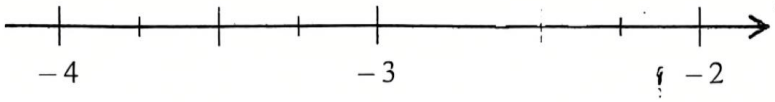
Section A: Conventional Questions (22 marks)

1. Write down the directed numbers represented by A, B and C shown on the number line below. (2 marks)



$A =$ _____ $B =$ _____ $C =$ _____

2. Use the symbol '×' to mark the number $-\frac{8}{3}$ on the number line given below. (1 mark)



3. Write down the following expressions and find the result of each of the followings. (4 marks)

(a) Add – 5 to the product of $-\frac{2}{7}$ and 14.

(b) The quotient of dividing – 36 by 9 minus – 3.

_____ _____

_____ _____

_____ _____

_____ _____

4. Arrange the following numbers in descending order. (2 marks)

$-2.6, +1\frac{1}{7}, -\frac{16}{3}, -\frac{1}{4}, +\frac{10}{3}$

_____

5. Write down the H.C.F. and L.C.M. of $2^3 \times 3^4 \times 5^2$, $2^2 \times 5 \times 7$ and $2 \times 3^2 \times 5^3 \times 7^2$. (Express your answers in index notation.) (2 marks)

H.C.F. = _____

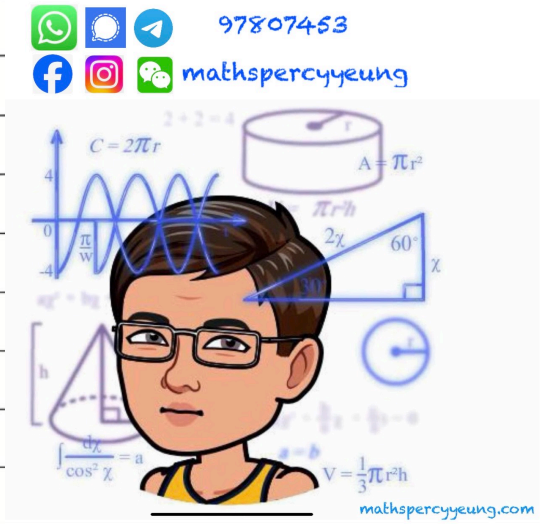
L.C.M. = _____

6. Evaluate the followings.

(a) $(-5) \times (+3) - 12 \div (-3)$

(b) $\frac{2}{3} \times (-3\frac{1}{2}) + (-2) \div (-\frac{8}{5})$

(4 marks)



7. Find the H.C.F. and L.C.M. of 12, 18 and 48 using short division method. (3 marks)

8. A dolphin jumped from 2.5 m below sea level to 5 m above sea level, touching a ball at this height. It then descended 8.5 m back into the water. Suppose positive numbers represent heights above sea level.

(a) Find the difference in levels of the dolphin from its starting point to the ball.

(b) Using directed numbers, represent the dolphin's final position after descending back into the water.

(4 marks)

Section B: Multiple-choice Questions (8 marks)

Each question carries 2 marks. 2 marks will be deducted for any un-answered question.
Write your answers in the boxes provided.

9	10	11	12

9. ■6144■ is a 6-digit number. If the number is divisible by 6, find the value of ■.

   A. 3

   B. 6

   C. 8

   D. 9

10. Which of the following is the prime factorization of 90?

   A. $3^2 \times 10$

   B. 6×15

   C. $1 \times 2 \times 3^2 \times 5$

   D. $2 \times 3^2 \times 5$

11. The temperature at a certain place falls by 2 °C on the first day, falls by 5 °C on the second day, falls by 6 °C on the third day, and rises by 7 °C on the fourth day. Find the overall change in temperature at that place.

   A. -6 °C

   B. -4 °C

   C. -2 °C

   D. $+6$ °C

12. In a mathematics competition, there are 8 questions, each carrying equal marks. You earn 4 marks for each correct answer, lose 3 marks for each wrong answer, and lose 2 marks for each blank answer. If Macy answered 5 questions correctly, 2 questions incorrectly, and left 1 question blank, how many marks could she get?

   A. 0

   B. 2

   C. 12

   D. 14

End of paper