

Section A: Multiple Choice (20 marks)

Please put your answers in the spaces provided in the Question-Answer Booklet.

1. Which of the following is NOT a whole number?

- A. -47
- B. 47
- C. 99
- D. 0

2. Which of the following is true?

- A. 1372 is divisible by 6 .
- B. 1374 is divisible by 6 .
- C. 1376 is divisible by 6 .
- D. 1378 is divisible by 6 .

3. In which of the following is the H.C.F. 1 ?

- A. 35 and 135
- B. 16 and 81
- C. 28 and 56
- D. 33 and 121

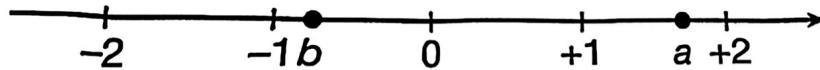
4. Which of the following is greater than 1 ?

- A. 0.25×4.001
- B. $3\frac{3}{5} \div 4\frac{12}{13}$
- C. $\frac{7}{13} \times 1\frac{2}{11}$
- D. $62 \div 72$

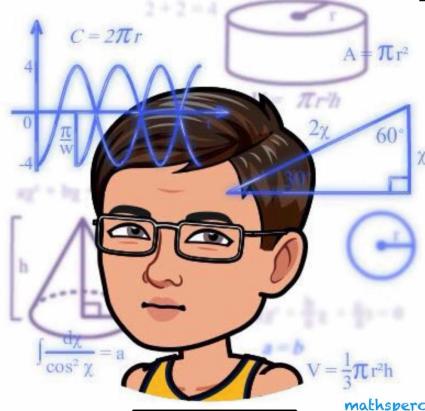
5. Arrange $-3.4, -3.6, -3\frac{4}{7}$ in ascending order.

- A. $-3.6 < -3\frac{4}{7} < -3.4$
- B. $-3\frac{4}{7} > -3.4 > -3.6$
- C. $-3.4 < -3.6 < -3\frac{4}{7}$
- D. $-3.6 > -3\frac{4}{7} > -3.4$

6. Suppose a and b are 2 numbers on the number line. Which of the following is FALSE?



- A. $a - b > 0$
- B. $a + b > 0$
- C. $ab < 0$
- D. $b - a > 0$



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7. Which of the following is NOT a formula?

- A. $v = a + bc$
- B. $A = mnpq$
- C. $\frac{m}{3}(12 + n)$
- D. $x = 3 + 2y - z$

8. Which of the following is NOT a triangular number?

- A. 1
- B. 10
- C. 21
- D. 32

9. Find the 8th term in the sequence 3, 6, 12, 24, 48,

- A. 96
- B. 156
- C. 288
- D. 384

10. Represent the word phrase 'subtract the product of x and y from the square of z , and then divide the difference by 4' by an algebraic expression.

- A. $\frac{xy - z^2}{4}$
- B. $\frac{z^2 - xy}{4}$
- C. $xy - \frac{z^2}{4}$
- D. $z^2 - \frac{xy}{4}$

11. Solve the equation $\frac{3x-1}{4} + 3 = 8$.

- A. 6
- B. 7
- C. 8
- D. 9

12. Which of the following is an equation with a positive root?

- A. $-3x - 12 = 0$
- B. $3(3 + x) = 12$
- C. $\frac{-3-x}{2} = 1$
- D. $12 - x = 15$

13. The length and the width of a rectangle are 7 cm and $(2x - 6) \text{ cm}$ respectively. If the area of the rectangle is 56 cm^2 , find the value of x .

- A. 7
- B. 8
- C. 9
- D. 10

14. What is the percentage of $\frac{8}{9}$ is $\frac{4}{15}$?

- A. 20%
- B. 25%
- C. 30%
- D. $33\frac{1}{3}\%$

15. Which of the following is/are FALSE?

- I. $1 = 100\%$
- II. $P \times 100\% = P\%$
- III. $P \times (1 + 20\%) = 120P\%$

- A. II only
- B. III only
- C. I and III only
- D. II and III only

16. Samuel bought a watch for \$2500. He then sold it to Windy at a profit of 20%. At what price should Windy sell the watch in order to made a profit of 25%?

- A. \$3000
- B. \$3600
- C. \$3750
- D. \$4150

17. In a supermarket, customers who buy 3 cans of soft drink at one time can buy one more can at half of the marked price. If Mabel buys 4 cans of soft drink at one time, find the discount per cent.

- A. 12.5%
- B. 14.3%
- C. 16.7%
- D. 50%

18. Which of the following is/are convex polygon(s)?

I.	
II.	
III.	
IV.	

- A. IV only
- B. II and IV only
- C. I, II and III only
- D. I, II and IV only

19. Which of the following is/are a polyhedron (polyhedral)?

I.	
II.	
III.	
IV.	

- A. I only
- B. II only
- C. I and II only
- D. II and III only

20. Which of the following solids can yield uniform cross-sections?

I.	
II.	
III.	
IV.	

- A. I only
- B. I and II only
- C. III and IV only
- D. All of the above