

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

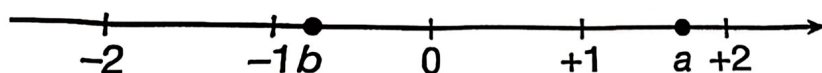
4. Which of the following is greater than 1?

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. $62 \div 72$

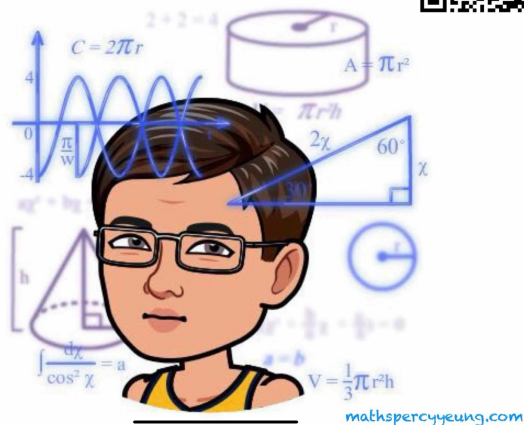
5. Arrange -3.4 , -3.6 , $-3\frac{4}{7}$ in ascending order.

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 $(2x - 6)$ 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. $333\frac{1}{3}\%$

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.

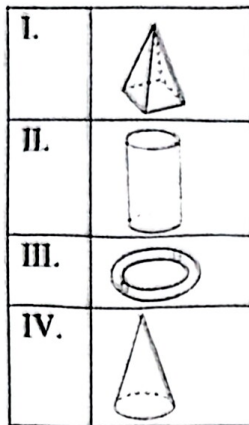
- A. 12.5%
- B. 14.3%
- C. 16.7%
- D. 50%

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

I.	
II.	
III.	
IV.	

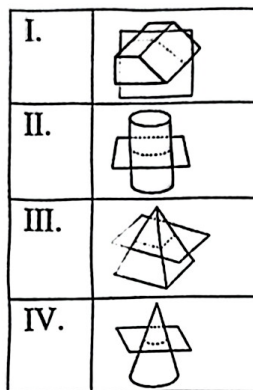
- A. IV only
- B. II and IV only
- C. I, II and III only
- D. I, II and IV only

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



- 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?



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