

SECTION A

[20 marks]

Answer all questions.

1. How many negative integers are there between -6 and 4 ?

A. 3

C. 5

B. 4

D. 6

2. Which of the following is **not** a rational number?

A. 0.125

C. $\frac{1.8}{5.2}$ B. $-1\frac{3}{7}$ D. $\sqrt{\frac{5}{6}}$ 3. All the following numbers are prime numbers **except**

A. 17

C. 39

B. 31

D. 43

4. Among the following, select the correct calculation for

$$-\frac{4}{5} - 0.75 \div 1\frac{1}{8}$$

A. $-\frac{4}{5} - \frac{3}{4} \times \frac{8}{9}$

C. $-\frac{4}{5} - (-\frac{3}{4}) \div \frac{9}{8}$

B. $-\frac{5}{4} - \frac{3}{4} \times \frac{8}{9}$

D. $-\frac{4}{5} - \frac{4}{3} \div \frac{9}{8}$

5. What is the highest common factor (HCF) of 16, 24 and 56?

A. 4

C. 12

B. 8

D. 16

6. Diagram 1 shows some factors of 72.

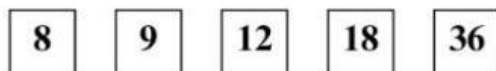


Diagram 1

Identify the other three factors of 72.

A. 1, 2, 27

C. 1, 16, 24

B. 1, 2, 3

D. 1, 27, 30

7. Which of the following is the lowest common multiple of 4, 8 and 14?

- A. 32
B. 42
C. 56
D. 88

8. What are the prime factors of 70?

- A. 2, 3, 5
B. 2, 3, 9
C. 2, 5, 7
D. 2, 5, 9

9. Which of the following is a perfect square?

- A. -9
B. $\frac{3}{25}$
C. $\frac{1}{15}$
D. 121

10. Find the value of $(-0.42)^2 = 0.1764$

- A. 0.18
B. 0.64
C. 16
D. 64

11. Given $\sqrt{625} = 25$. Thus, $25^2 = \square$

- A. 1 000
B. 625
C. 100
D. 25

12. Estimate the value of 11.4^3 .

- A. 1 731
B. 1 500
C. 1 331
D. 1 000

13. Calculate $\sqrt[3]{-0.125} =$

- A. 0.05
B. 0.5
C. -0.05
D. -0.5

14. The ratio 9 : 15 is equivalent to the following except

- A. 3 : 5
B. 12 : 20
C. 18 : 27
D. 21 : 35

15. The ratio 6 : 18 in its simplest form is

- A. 0.6 : 1.8
B. 1 : 3
C. 3 : 1
D. 3 : 9

16. Given $2 : 5 = x : 15$, find the value of x .

- A. 4
B. 6
C. 8
D. 10

17. Diagram 2 shows the selling price of a microwave oven after a discount during a clearance sale.

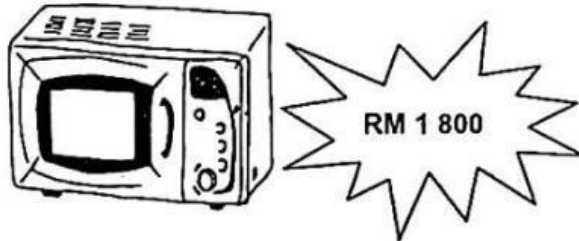


Diagram 2

The original price of a microwave oven is RM 2 400. Find the percentage of the discount given.

- A. 25%
B. 30%
C. 35%
D. 40%

18. How many algebraic terms in the expression $-7p - 2 + 5p + 6$?

- A. 4
B. 3
C. 2
D. 1

19. State the coefficient of m in the term $-\frac{m}{9}$.

- A. -9
B. $-\frac{1}{9}$
C. $\frac{1}{9}$
D. 9

20. Which of the following pairs are like terms?

- A. $6x, -3xy$
B. $4a, \frac{3}{5}a$
C. $-8r, -8s$
D. $2t^2, -1.7t$