

Kerala PSC - Village Field Assistant (VFA)

Arithmetic, Mental Ability & Observation - 30 MCQs with Answers

Questions

1. What is 15% of 240?

- (A) 24
- (B) 30
- (C) 36
- (D) 40

2. The LCM of 12 and 18 is:

- (A) 24
- (B) 36
- (C) 48
- (D) 72

3. The HCF of 24 and 36 is:

- (A) 6
- (B) 8
- (C) 12
- (D) 18

4. The average of 10, 20, 30, 40 and 50 is:

- (A) 25
- (B) 30
- (C) 35
- (D) 40

5. An article is sold for Rs 540 at a 20% profit. Its cost price is:

- (A) Rs 420
- (B) Rs 432
- (C) Rs 450
- (D) Rs 500

6. The simple interest on Rs 5000 at 8% per annum for 2 years is:

- (A) Rs 400
- (B) Rs 800
- (C) Rs 1000
- (D) Rs 1600

7. A train running at 60 km/h travels how far in 2.5 hours?

- (A) 120 km
- (B) 130 km
- (C) 150 km
- (D) 160 km

8. Two numbers are in the ratio 3:5 and their sum is 80. The larger number is:

- (A) 30
- (B) 40
- (C) 50
- (D) 60

9. A can do a work in 10 days and B in 15 days. Together they finish it in:

- (A) 5 days
- (B) 6 days
- (C) 8 days
- (D) 12 days

10. The square root of 1764 is:

- (A) 38
- (B) 42
- (C) 44
- (D) 48

11. 25% of a number is 75. The number is:

- (A) 150
- (B) 200
- (C) 300
- (D) 400

12. A shirt marked at Rs 800 is sold at 10% discount. The selling price is:

- (A) Rs 700
- (B) Rs 720
- (C) Rs 740
- (D) Rs 780

13. 72 km/h is equal to how many m/s?

- (A) 15
- (B) 18
- (C) 20
- (D) 25

14. If 12 pens cost Rs 96, the cost of 18 pens is:

- (A) Rs 120
- (B) Rs 132
- (C) Rs 144
- (D) Rs 150

15. The perimeter of a rectangle of length 12 cm and breadth 8 cm is:

- (A) 20 cm
- (B) 40 cm
- (C) 48 cm
- (D) 96 cm

16. The area of a circle of radius 7 cm is (use $22/7$):

- (A) 44 sq cm
- (B) 154 sq cm
- (C) 308 sq cm
- (D) 49 sq cm

17. Find the next number: 2, 6, 12, 20, 30, ?

- (A) 36
- (B) 40
- (C) 42
- (D) 44

18. Find the next number: 3, 6, 12, 24, ?

- (A) 36
- (B) 42
- (C) 48
- (D) 54

19. Find the odd one out: Apple, Mango, Potato, Banana

- (A) Apple
- (B) Mango
- (C) Potato
- (D) Banana

20. If CAT is coded as DBU, then DOG is coded as:

- (A) EPH
- (B) EOH
- (C) DPH
- (D) CNF

21. Doctor : Hospital :: Teacher : ?

- (A) Student
- (B) School
- (C) Book
- (D) Class

22. A man faces East and turns right. Which direction does he face now?

- (A) North
- (B) South
- (C) West
- (D) East

23. Pointing to a man, a woman says, 'He is the son of my mother's only son.' The man is her:

- (A) Brother
- (B) Son
- (C) Nephew
- (D) Uncle

24. The angle between the hands of a clock at 3:00 is:

- (A) 30 degrees
- (B) 60 degrees
- (C) 90 degrees
- (D) 180 degrees

25. If the 1st of a month is Wednesday, the 15th of that month is a:

- (A) Monday
- (B) Tuesday
- (C) Wednesday
- (D) Thursday

26. The 5th letter from the right end of the English alphabet is:

- (A) U
- (B) V
- (C) W
- (D) X

27. Find the missing letter: A, C, E, G, ?

- (A) H
- (B) I
- (C) J
- (D) K

28. Find the odd one out: 9, 16, 25, 30, 36

- (A) 9
- (B) 16
- (C) 30
- (D) 36

29. In a row of 30 students, Ravi is 12th from the left. His position from the right is:

- (A) 17th
- (B) 18th
- (C) 19th
- (D) 20th

30. The mirror image of a clock shows 3:00. The actual time is:

- (A) 3:00
- (B) 6:00
- (C) 9:00
- (D) 12:00

Answer Key

1. (C) 36 - $240 \times 15/100 = 36$.
2. (B) 36 - $12 = 2 \times 2 \times 3$, $18 = 2 \times 3 \times 3$; LCM = 36.
3. (C) 12 - Common factors give HCF = 12.
4. (B) 30 - $150 / 5 = 30$.
5. (C) Rs 450 - $CP = 540 / 1.2 = \text{Rs } 450$.
6. (B) Rs 800 - $5000 \times 8 \times 2 / 100 = \text{Rs } 800$.
7. (C) 150 km - $60 \times 2.5 = 150 \text{ km}$.
8. (C) 50 - $80 \times 5/8 = 50$.
9. (B) 6 days - $1/10 + 1/15 = 1/6$, so 6 days.
10. (B) 42 - $42 \times 42 = 1764$.
11. (C) 300 - $75 \times 4 = 300$.
12. (B) Rs 720 - $800 - 80 = \text{Rs } 720$.
13. (C) 20 - $72 \times 5/18 = 20 \text{ m/s}$.
14. (C) Rs 144 - Rs 8 per pen; $8 \times 18 = \text{Rs } 144$.
15. (B) 40 cm - $2(12 + 8) = 40 \text{ cm}$.
16. (B) 154 sq cm - $22/7 \times 7 \times 7 = 154 \text{ sq cm}$.
17. (C) 42 - Differences are 4, 6, 8, 10, 12; $30 + 12 = 42$.
18. (C) 48 - Each term doubles.
19. (C) Potato - Potato is a vegetable (tuber); the others are fruits.
20. (A) EPH - Each letter moves one step forward: D-E, O-P, G-H.
21. (B) School - A doctor works in a hospital; a teacher works in a school.
22. (B) South - Right of East is South.
23. (C) Nephew - Mother's only son = her brother, so his son is her nephew.
24. (C) 90 degrees - At 3:00 the hands are 3 hours apart: $3 \times 30 = 90 \text{ degrees}$.
25. (C) Wednesday - 14 days = 2 weeks later, so the same day.
26. (B) V - Z, Y, X, W, V: the 5th is V.
27. (B) I - Letters skip one each time; after G comes I.
28. (C) 30 - All others are perfect squares; 30 is not.
29. (C) 19th - $30 - 12 + 1 = 19\text{th}$.
30. (C) 9:00 - Actual time = $12:00 - 3:00 = 9:00$.