

## 50 Important Aptitude Problems

1) What is the difference in the place value of 5 in the numeral 754853?

1. 49500
2. 49950
3. 45000
4. 49940

2) What should be added to 1459 so that it is exactly divisible by 12?

1. 4
2. 3
3. 5
4. 6

3) If the number 467X4 is divisible by 9, find the value of the digit marked as X.

1. 4
2. 5
3. 6
4. 7

4) 7X2 is a three digit number and X is the missing digit. If the number is divisible by 6, the missing digit is

1. 4
2. 3
3. 2
4. 5

5) What smallest number should be subtracted from 9805 so that it is divisible by 8?

1. 3
2. 4
3. 5
4. 7

**6) Which of the following numbers is divisible by 9?**

1. 67578
2. 56785
3. 45678
4. 65889

**7) If  $(2p + 1)$  is a prime number, which one of the following digits could be the value of  $p$ ?**

1. 3
2. 4
3. 5
4. 6

**8) Find the number of three-digit numbers which are divisible by 6.**

1. 150
2. 130
3. 120
4. 110

**9) What is the sum of first 35 natural numbers?**

1. 610
2. 630
3. 645
4. 660

**10) Given that  $1+2+3+\dots+9 = 45$ , find the value of  $(11+12+13+\dots+19)$ .**

1. 125
2. 130
3. 135
4. 140

**11) A running man crosses a bridge of length 500 meters in 4 minutes. At what speed he is running?**

1. 8.5 km/hr
2. 7.5 km/hr
3. 9.5 km/hr
4. 6.5 km/hr

**12) A car running at a speed of 140 km/hr reached its destination in 2 hours. If the car wants to reach at its destination in 1 hour, at what speed it needs to travel?**

1. 300 km/hr
2. 280 km/hr
3. 250 km/hr
4. 240 km/hr

**13) A jogger is running at a speed of 15 km/hr. In what time he will cross a track of length 400 meters?**

1. 96 sec
2. 100 sec
3. 104 sec
4. 110 sec

**14) A horse covers a distance of 1500 meters in 1 minute 20 seconds. At what speed the horse is running?**

1. 67.2 km/hr
2. 67.7 km/hr
3. 67.5 km/hr
4. 67.9 km/hr

**15) A cyclist moving at a speed of 20 km/hr crosses a bridge in 2 minutes. What is the length of the bridge?**

1. 555.5 m
2. 444.4 m
3. 777.7 m
4. 666.6 m

**16) Two boys start running at the same time in the same direction at a speed of 10 km/hr and 12 km/hr respectively. In what time they will be 8 km apart?**

1. 3 hours
2. 4 hours
3. 5 hours
4. 6 hours

**17) A man walking at a speed of 8 km/hr covers a certain distance in 1 hour 45 minutes. If he runs at a speed of 10 km/hr, in what time he will cover the same distance?**

1. 74 minutes
2. 70 minutes
3. 80 minutes
4. 84 minutes

**18) A horse covers a certain distance in 40 minutes if it runs at a speed of 60 km/hr. At what speed the horse can cover the same distance in 30 minutes?**

1. 80 km/hr
2. 82 km/hr
3. 84 km/hr
4. 86 km/hr

**19) A car moving at a speed of 75 km/hr covers certain distance in 2 hours. If its speed is reduced by 15 km/hr, in what time it will cover the same distance?**

1. 135 minutes
2. 140 minutes
3. 150 minutes
4. 155 minutes

**20) At his usual speed a cyclist covers a certain distance in 8 hours. When the speed of cycle is increased by 4 km/hr the same distance can be covered in 6 hours. Find the distance.**

1. 92 km
2. 94 km
3. 96 km
4. 98 km

**21) Worker A completes a task in 8 days, and worker B completes the same task in 10 days. If both A and B work together, in how many days they will complete the task?**

1. days.
2. days.
3. days.
4. days.

**22) Vikas and Mohan working together can complete a work in 6 days. If Vikas alone completes the same work in 10 days, in how many days Mohan alone can complete the same work?**

1. 13 days
2. 14 days
3. 15 days
4. 16 days

**23) A can do a work in 10 days and B can do the same work in 15 days. If they start working together but stop working after four days, find the fraction of the work that is left.**

1.  $1/3$
2.  $2/3$
3.  $4/7$
4.  $1/2$

**24) Peter is twice as good as workman as Tom. When they work together they can finish a task in 16 days. If Tom works alone, in many days he will complete the task?**

1. 46 days
2. 48 days
3. 50 days
4. 52 days

**25) A can do a job in 12 days and B can do the same job in 10 days. With the help of C they can do the same job in 4 days. In how many days C alone can do this job?**

1. 15 days
2. 14 days
3. 13 days
4. 12 days

**26) A, B, C can do a job in 10, 20 and 40 days respectively. In how many days A can complete the job if he is assisted by B and C on every third day?**

1. 8 days
2. 7 days
3. 9 days
4. 6 days

**27) If 5 men can colour 50-meter long cloth in 5 days, in many days 4 men can color a 40-meter long cloth?**

1. 5 days
2. 6 days
3. 4 days
4. 3 days

**28) If 4 men can finish 4 times of a work in 4 days, in how many days 6 men can finish the 6 times of same work ?**

1. 3 days
2. 4 days
3. 5 days
4. 6 days

**29) A can do a piece of work in 10 days. B is 50% more efficient than A. In how many days B alone can do the same job?**

1. 6.2 days
2. 6.6 days
3. 7 days
4. 7.2 days

**30) A can do a job in 30 days. B alone can do the same job in 20 days. If A starts the work and joined by B after 10 days, in how many days the job will be done?**

1. 15 days
2. 16 days
3. 17 days
4. 18 days

**31) What is the HCF of 1095 and 1168?**

1. 37
2. 73
3. 43
4. 83

**32) Find the HCF of 210, 385, and 735.**

1. 7
2. 14
3. 21
4. 35

**33) The HCF of  $\frac{2}{3}, \frac{8}{9}, \frac{64}{81}$ , and  $\frac{10}{27}$  is:**

1.  $\frac{2}{3}$
2.  $\frac{2}{81}$
3.  $\frac{160}{3}$
4.  $\frac{160}{81}$

**34) What will be the HCF of 608, 544; 638, 783; and 425, 476 respectively?**

1. 32, 29, 17
2. 17, 32, 29
3. 29, 32, 17
4. 32, 17, 29

**30) A can do a job in 30 days. B alone can do the same job in 20 days. If A starts the work and joined by B after 10 days, in how many days the job will be done?**

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4. 32, 17, 29

**35) The LCM of**

1.  $\frac{1}{54}$
2.  $\frac{10}{27}$
3.  $\frac{20}{3}$
4. None of these.

**36) If the HCF of two numbers is 27, and their sum is 216, find these numbers.**

1. 27, 189
2. 154, 162
3. 108, 108
4. 81, 189

**37) Two numbers are in the ratio of 15:11. If the HCF of numbers is 13, find the numbers.**

1. 75, 55
2. 105, 77
3. 15, 11
4. 195, 143

**38) Find the greatest integer that divides 358, 376, and 334 and leaves the same remainder in each case.**

1. 6
2. 7
3. 8
4. 9

**39) Three bells toll at intervals of 36 sec, 40 sec, and 48 sec respectively. They start singing together at a particular time. When will they toll next together?**

1. 6 minutes
2. 12 minutes
3. 18 minutes
4. 24 minutes

**40) The LCM of two numbers is 7700, and their HCF is 11. If one of these numbers is 275, what is the other number?**

1. 279
2. 283
3. 308
4. 318

**41) What is the area of a triangle with base 5 meters and height 10 meters?**

1. 20 square meters
2. 35 square meters
3. 25 square meters
4. 40 square meters

**42) The base of a right-angled triangle is 10 and hypotenuse is 20. What is its area?**

1. 52 meters
2. 58 meters
3. 68 meters
4. 60 meters

**43) The sides of a triangle are in the ratio 10: 24:26 and its perimeter is 300 m. What is its area?**

1. 2500 m<sup>2</sup>
2. 3000 m<sup>2</sup>
3. 3500 m<sup>2</sup>
4. 4000 m<sup>2</sup>

**44) The ratio of length and breadth of a rectangular park is 4:2. If a cat running along the boundary of the park at the speed of 18 km/hr completes one round in 10 minutes, find the area of the park in square meters.**

1. 50000 sq. m.
2. 45000 sq. m.
3. 68000 sq. m.
4. 55000 sq. m.

**45) The perimeter of the rectangular field is 480 meters and the ratio between the length and breadth is 5:3. Find the area of the field.**

1. 7200 m<sup>2</sup>
2. 15000 m<sup>2</sup>
3. 13500 m<sup>2</sup>
4. 54000 m<sup>2</sup>

**46) If the perimeter of a square is 24 cm, one of the sides of the square is**

1. 12 cm
2. 8 cm
3. 6 cm
4. 2 cm

**47) If the diagonal of a square field is 16 m, what is its area?**

1. 126 m<sup>2</sup>
2. 128 m<sup>2</sup>
3. 130 m<sup>2</sup>
4. 132 m<sup>2</sup>

**48) The area of a rectangle and square are equal. The side of the square is 5 cm and the smaller side of the rectangle is half that of the square. The length of the other side of the rectangle would be**

1. 5 cm
2. 8 cm
3. 10 cm
4. 12.5 cm

**49) The length of a rectangle is increased by 60%. By what percent would the width have to be decreased to maintain the same area?**

1. 37.5%
2. 60%
3. 75%
4. 120%

**50) The ratio between the breadth and perimeter of a rectangle is 2:10. If the area of the rectangle is 428 sq. cm, what is the length of the rectangle?**

1. 25.4 cm
2. 30.4 cm
3. 40.4 cm
4. 45.4 cm

**ANSWERS**

- |              |              |              |
|--------------|--------------|--------------|
| <b>1. 2</b>  | <b>1. 2</b>  | <b>41. 4</b> |
| <b>2. 3</b>  | <b>22. 3</b> | <b>42. 1</b> |
| <b>3. 3</b>  | <b>23. 1</b> | <b>43. 1</b> |
| <b>4. 2</b>  | <b>24. 2</b> | <b>44. 3</b> |
| <b>5. 3</b>  | <b>25. 1</b> | <b>45. 3</b> |
| <b>6. 4</b>  | <b>26. 1</b> | <b>46. 2</b> |
| <b>7. 2</b>  | <b>27. 2</b> | <b>47. 3</b> |
| <b>8. 1</b>  | <b>28. 2</b> | <b>48. 1</b> |
| <b>9. 2</b>  | <b>29. 4</b> | <b>49. 1</b> |
| <b>10. 3</b> | <b>30. 2</b> | <b>50. 1</b> |
| <b>11. 2</b> | <b>31. 4</b> |              |
| <b>12. 2</b> | <b>32. 2</b> |              |
| <b>13. 1</b> | <b>33. 1</b> |              |
| <b>14. 3</b> | <b>34. 3</b> |              |
| <b>15. 4</b> | <b>35. 1</b> |              |
| <b>16. 2</b> | <b>36. 4</b> |              |
| <b>17. 4</b> | <b>37. 1</b> |              |
| <b>18. 1</b> | <b>38. 2</b> |              |
| <b>19. 3</b> | <b>39. 3</b> |              |
| <b>20. 3</b> | <b>40. 3</b> |              |