

# Quant Questions PDF

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**Direction(1-5):-** Find the missing term of the given series.

**1. 11, ?, 16, 21, 29, 41**

- |       |       |
|-------|-------|
| 1. 12 | 2. 14 |
| 3. 15 | 4. 13 |
| 5. 11 |       |

**2. 1800, ?, 60, 15, 5, 2.5**

- |        |        |
|--------|--------|
| 1. 300 | 2. 600 |
| 3. 120 | 4. 240 |
| 5. 360 |        |

**3. 4, 3, 4, 9, 32, ?**

- |        |        |
|--------|--------|
| 1. 75  | 2. 155 |
| 3. 125 | 4. 175 |
| 5. 165 |        |

**4. ?, 100, 150, 375, 1312.5**

- |        |        |
|--------|--------|
| 1. 50  | 2. 100 |
| 3. 75  | 4. 25  |
| 5. 200 |        |

**5. 0, 6, 24, 60, ?, 210**

- |        |        |
|--------|--------|
| 1. 130 | 2. 170 |
| 3. 90  | 4. 120 |
| 5. 150 |        |

**Directions(6-15):-** Simplify the following.

**6.**  $\frac{(17.28 \div ?)}{3.6 \times 0.2} = 200$

- |                  |         |
|------------------|---------|
| 1. 120           | 2. 1.20 |
| 3. 12            | 4. 0.12 |
| 5. None of these |         |

**7.  $486 \div ? \times 7392 \div 66 = 1008$**

- |       |       |
|-------|-------|
| 1. 54 | 2. 55 |
| 3. 52 | 4. 53 |
| 5. 51 |       |

**8.**  $14\frac{2}{7}\% \text{ of } 4200 \div \sqrt{576} = (?)^{\frac{1}{2}}$

- |        |        |
|--------|--------|
| 1. 125 | 2. 225 |
| 3. 25  | 4. 5   |
| 5. 625 |        |

**9.**  $\frac{2}{7} \times \frac{5}{6} \times \frac{3}{8} \times ? = 90$

- |         |         |
|---------|---------|
| 1. 1208 | 2. 1108 |
| 3. 1008 | 4. 1128 |
| 5. 1348 |         |

**10.  $(0.05 \times 6.25) \div 2.5 = ?$**

- |                  |          |
|------------------|----------|
| 1. 12.55         | 2. 0.125 |
| 3. 0.115         | 4. 1.25  |
| 5. None of these |          |

**11.  $1496 \div 17 = ?\% \text{ of } 220$**

- |                  |       |
|------------------|-------|
| 1. 25            | 2. 40 |
| 3. 50            | 4. 75 |
| 5. None of these |       |

**12.  $(36\% \text{ of } 180) \div 0.4 = ?$**

- |        |        |
|--------|--------|
| 1. 160 | 2. 164 |
| 3. 166 | 4. 162 |
| 5. 180 |        |

**13.  $0.08\% \text{ of } 55500 - 16.4 = ?$**

- |         |         |
|---------|---------|
| 1. 26.6 | 2. 28   |
| 3. 29.2 | 4. 30.4 |
| 5. 32   |         |

**14.  $35\% \text{ of } 150 \times 16 = ? - 22$**

- |                  |        |
|------------------|--------|
| 1. 865           | 2. 932 |
| 3. 864           | 4. 862 |
| 5. None of these |        |

**15.  $(3080 + 6160) \div ? = 330$**

- |       |       |
|-------|-------|
| 1. 26 | 2. 22 |
| 3. 28 | 4. 29 |
| 5. 18 |       |

**Directions(16-20):-** In each of the following questions, two equations (I) and (II) are given you have to solve both the equations and give answer.

**16. I.**  $2x^2 + x - 6 = 0$

**II.**  $3y^2 + 2y - 8 = 0$

- |                           |               |
|---------------------------|---------------|
| 1. $x > y$                | 2. $x < y$    |
| 3. $x \leq y$             | 4. $x \geq y$ |
| 5. $x = y$ or no relation |               |

**17. I.**  $7x + 4y = 5$

**II.**  $5x + 3y = 3$

- |                           |               |
|---------------------------|---------------|
| 1. $x > y$                | 2. $x < y$    |
| 3. $x \leq y$             | 4. $x \geq y$ |
| 5. $x = y$ or no relation |               |

**18. I.**  $\frac{25}{\sqrt{x}} - 2\sqrt{x} = 3\sqrt{x}$

**II.**  $2y + \frac{y^2 + 50}{y} = 5y$

- |                           |               |
|---------------------------|---------------|
| 1. $x > y$                | 2. $x < y$    |
| 3. $x \leq y$             | 4. $x \geq y$ |
| 5. $x = y$ or no relation |               |

**19. I.**  $x^2 + 3x - 28 = 0$

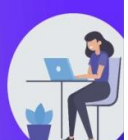
**II.**  $y^2 - 12y + 32 = 0$

- |                           |               |
|---------------------------|---------------|
| 1. $x > y$                | 2. $x < y$    |
| 3. $x \leq y$             | 4. $x \geq y$ |
| 5. $x = y$ or no relation |               |

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20.  $2x^2 - 4x - 48 = 0$

$y^2 - 13y + 42 = 0$

1.  $x > y$
2.  $x < y$
3.  $x \leq y$
4.  $x \geq y$
5.  $x = y$  or no relation

**Direction (21-25):- Study the following table carefully to answer the questions that follow. Number of employees in 5 departments of an Organisation in the given years.**

Department →	A	B	C	D	E
Years ↓					
2013	120	270	190	220	300
2014	240	330	250	350	180
2015	340	280	370	290	170
2016	420	360	290	310	260
2017	320	280	320	260	320

21. The difference between the average number of employees in the department A and department C taking all the given years together is –

1. 4
2. 5
3. 6
4. 7
5. None of these

22. The respective ratio between the total number of employees in departments A and B in 2015 and that in departments D and E in 2017 is –

1. 29 : 31
2. 31 : 29
3. 31 : 33
4. 33 : 31
5. None of these

23. In which year was the total number of employees taking all the departments together was the highest?

1. 2014
2. 2015
3. 2016
4. 2017
5. None of these

24. How many employees served in department D taking all the years together?

1. 2015
2. 1530
3. 1340
4. 1430
5. None of these

25. By what percent increased the number of employees in department A in 2017 in comparison to that in the year 2013?

1. 166.7%
2. 156.7%
3. 171.3%
4. 172.5%
5. None of these

26. When an article is sold at 25% discount, a loss of 10% occurs but when it sold at 15% discount then there is a profit of Rs.25. What is the cost price of the article?

1. 1375
2. 1250
3. 1667
4. 1248
5. 1392

27. A certain amount was to be distributed among X, Y and Z in the ratio 2 : 3 : 4 respectively, but was erroneously distributed in the ratio 4 : 3 : 2 due to which Z got Rs70 less. Find the amount which was to be distributed.

1. 315
2. 368
3. 375
4. 399
5. 325

28. Rahul's present age is  $\frac{4}{7}$ th of his father's present age. If the difference between their ages is 15 years than find the age of Rahul after 5 years?

1. 20
2. 25
3. 30
4. 32
5. 41

29. A 180m. long train crosses another train of length 270 m in 18 seconds by running towards each other. If the ratio of speed of the first train to second train is 2 : 3. Then find the time taken by 2nd train to cross first train if both run in the same direction.

1. 45
2. 96
2. 90
4. 80
3. 95

30. Rakesh started a business with some money . After four months Ram and Shyam joined his business with investments of Rs 3500 and Rs 2800 respectively. Total profit earned at the end of year was Rs.27000. If profit received by Rakesh was Rs 9000, then find Rakesh's investment in the business?

1. 1700
2. 2000
3. 1600
4. 6300
5. 2100



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## Answers with Explanation

1.(4) difference between given terms

2.(1)

$$\begin{array}{ccccccc} 1800 & \boxed{300} & 60 & 15 & 5 & 2.5 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ \div 6 & \div 5 & \div 4 & \div 3 & \div 2 & \end{array}$$

3.(2)

$$\begin{array}{ccccccc} 4 & 3 & 4 & 9 & 32 & \boxed{155} \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ \times 1-1 & \times 2-2 & \times 3-3 & \times 4-4 & \times 5-5 & \end{array}$$

4.(5)

$$\begin{array}{ccccccc} \boxed{200} & 100 & 150 & 375 & 1312.5 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ \times 0.5 & \times 1.5 & \times 2.5 & \times 3.5 & \end{array}$$

5.(4) difference of given terms.

6. (4)

$$\begin{aligned} 17.28 \div ? &= 200 \times 3.6 \times 0.2 \\ ? &= \frac{17.28}{144} \\ &= 0.12 \end{aligned}$$

7.(1)

$$\begin{aligned} \frac{486}{?} \times \frac{7392}{?} &= 1008 \\ \frac{486}{?} &= \frac{66}{112} \\ ? &= \frac{486}{9} \\ ? &= 54 \end{aligned}$$

8.(5)

$$\begin{aligned} \frac{100}{700} \times 4200 \times \frac{1}{24} &= (?)^{\frac{1}{2}} \\ 25 &= (?)^{\frac{1}{2}} \\ ? &= 625 \end{aligned}$$

9.(3) 1008

10.(2) 0.125

11.(2)

$$\frac{1496}{17} = \frac{?}{100} \times 220$$
$$? = 40$$

12.(4)162

13.(2)  $0.08 \times 555 - 16.4 = ?$ 

$$? = 44.4 - 16.4$$

$$? = 28$$

14.(4)  $840 + 22 = 862$ 

15.(3)28

16.(5)

$$\text{I. } 2x^2 + x - 6 = 0$$

$$2x^2 + 4x - 3x - 6 = 0$$

$$x = -\frac{4}{2} = -2$$

$$x = +\frac{3}{2} = +1.5$$

$$\text{II. } 3y^2 + 2y - 8 = 0$$

$$3y^2 + 6y - 4y - 8 = 0$$

$$y = -\frac{6}{3} = -2$$

$$y = +\frac{4}{3} = +1.33$$

Hence, no relation

17.(1)

$$\text{I. } 7x + 4y = 5$$

$$\text{II. } 5x + 3y = 3$$

By solving both equations

$$x = +3$$

$$y = -4$$

Hence,  $x > y$ 

18.(4)

$$\text{I. } \frac{25}{\sqrt{x}} - 2\sqrt{x} = 3\sqrt{x}$$

$$25 - 2x = 3x$$

$$5x = 25$$

$$x = 5$$

$$\text{II. } 2y + \frac{y^2 + 50}{y} = 5y$$

$$2y^2 + y^2 + 50 = 5y^2$$

$$2y^2 = 50$$

$$y^2 = 25$$

$$y = \pm 5$$

Hence,  $x \geq y$ 

19. (4)

$$\text{I. } x^2 + 3x - 28 = 0$$

$$x^2 + 7x - 4x - 28 = 0$$

$$x = -7, +4$$

$$\text{II. } y^2 - 12y + 32 = 0$$

$$y^2 - 8y - 4y + 32 = 0$$

$$y = +8, +4$$

Hence,  $x \leq y$

**20. (3)**

$$2x^2 - 4x - 48 = 0$$

$$2(x^2 - 2x - 24) = 0$$

$$x^2 - 2x - 24 = 0$$

$$x^2 - 6x + 4x - 24 = 0$$

$$x = +6, -4$$

$$y^2 - 13y + 42 = 0$$

$$y^2 - 7y - 6y + 42 = 0$$

$$y = +7, +6$$

Hence,  $x \leq y$ .

**21. (1)**

Average of working employees:

Department A

$$= \frac{(120 + 240 + 340 + 420 + 320)}{5}$$

$$= \frac{1440}{5} = 288$$

Department C

$$= \frac{190 + 250 + 370 + 290 + 320}{5}$$

$$= \frac{1420}{5} = 284$$

$$\text{Difference} = 288 - 284 = 4$$

**22. (2)**

Required ratio

$$= (340 + 280) : (260 + 320)$$

$$= 620 : 580$$

$$= 31 : 29$$

**23. (3)**

Total number of employees:

$$\text{Year 2013} \Rightarrow 120 + 270 + 190 + 220 + 300 = 1100$$

$$\text{Year 2014} \Rightarrow 240 + 330 + 250 + 350 + 180 = 1350$$

$$\text{Year 2015} \Rightarrow 280 + 370 + 290 + 170 = 1450$$

$$\text{Year 2016} \Rightarrow 420 + 360 + 290 + 310 + 260 = 1640$$

$$\text{Year 2017} \Rightarrow 320 + 280 + 320 + 260 + 320 = 1500$$

**24. (4)** Total number of employees in department D

$$= 220 + 350 + 290 + 310 + 260 = 1430$$

**25. (1)**

Percentage increase

$$= \frac{320 - 120}{120} \times 100$$

$$= \frac{200 \times 100}{120} = 166.7\%$$

**26. (2)** Let  $CP=100, SP=90, MP=120$



2<sup>nd</sup> condition CP=100, SP=102

2-----25

100-----1250

**27.(1)**

Difference between the Ratio of Z=2

2-----70

9-----315

**28.(1)** Let Rahul's age=4x

Father's age=7x

Difference between ages=3x=15

x=5

Rahul's age=5\*4=20+5=25

**29.(2)** Let the speed of trains be 2x and 3x respectively.

$$\text{ATQ, } (2x + 3x) = \frac{270+180}{18}$$

$$x = 5$$

Time taken by 2<sup>nd</sup> train to cross 1<sup>st</sup> train be=T

Now,

$$5 = \frac{270 + 180}{T}$$

$$T = 90 \text{ sec}$$

**30(5)** Ratio of their investments = x : 12 : 3500 : 8 : 2800 : 8

$$= 3x : 7000 : 5600$$

$$\text{ATQ, } \frac{3x}{3x+7000+5600} = \frac{9000}{27000}$$

$$x = 2100$$

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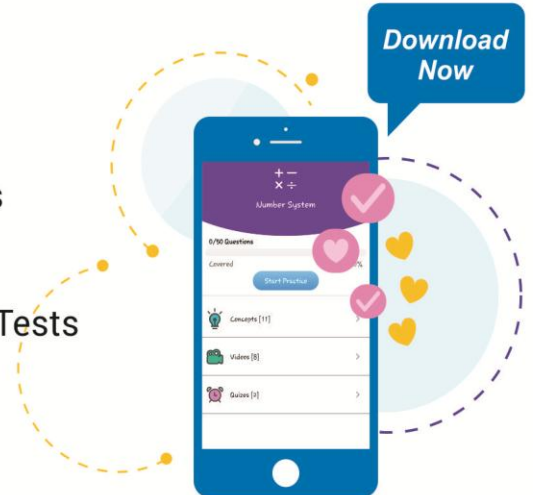
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