

# Air Force School Quantitative Aptitude Questions and answers



1. In 6 hours the distance covered by Chulbul is 6 km more than the distance covered by Bulbul in 7 hours. In 7 hours the distance covered by Chulbul is 3 km less than the distance covered by Bulbul in 9 hours. In a race of 180 km, by what distance will Chulbul beat Bulbul?

- A. 24 km
- B. 36 km
- C. 30 km
- D. 48 km
- E. None of these

**Answer: B**

2. A mobile phone was sold at a profit of 20% on the cost price. If the mobile phone was sold at 10% lower than this price, then the profit would have been Rs. 600 less. At what price should the mobile phone be sold if one wants to gain 25% of the cost price?

- A. Rs. 5000
- B. Rs. 7500
- C. Rs. 7250
- D. Rs. 6250
- E. None of these

**Answer: D**

3. Three friends A, B, C started working together on a piece of work. Once half of the work was completed B left the work and then A and C complete the remaining work together in 10 days. If B had worked with A and C together only for 6 days, then in how many days B alone can complete the piece of work?

- A. 25 days
- B. 40 days
- C. 30 days
- D. 20 days
- E. Can't be determined

**Answer: C**

4. The ratio of length to breadth of a rectangle is 1 : 2. If the length of the rectangle is increased by 20% and again it is decreased by 30% then the area of the rectangle is decreased by 32 sq. cm. What is the perimeter of the original rectangle?

- A. 30 cm
- B. 90 cm
- C. 120 cm

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- D. 60 cm
- E. None of these

**Answer: D**

5. 8 years ago, the ratio of A's age to B's age was 4 : 5. At present the ratio of B's age to C's age is 4 : 5. At present, the difference between A's age and C's age is 20 years , then what is the sum of the ages of A , B and C ?

- A. 138 years
- B. 152 years
- C. 164 years
- D. 148 years
- E. None of these

**Answer: D**

6. The length of a circular track is 800 m. Virat and Amresh started from the same point on the track and ran in opposite directions. Virat took 12 minutes to cover one kilometer while Amresh took only 9 minutes to cover the same distance. They kept running for 90 minutes. How many times did they cross each other?

- A. 10
- B. 20
- C. 21
- D. 30
- E. 31

**Answer: C**

7. The ratio between the length of Cuboid and the length of Rectangle is 3 : 2 and the ratio between the breadth of Cuboid and the breadth of Rectangle is 2 : 1. If the area of the Rectangle is 140 cm<sup>2</sup> and the height of the cuboid is 10 cm. find the volume of the cuboid.

- A. 2500 cm<sup>3</sup>
- B. 2100 cm<sup>3</sup>
- C. 4200 cm<sup>3</sup>
- D. 3400 cm<sup>3</sup>
- E. None of these

**Answer: C**

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8. A shopkeeper purchased 15 kg of variety A rice at Rs.  $X$  per kg and 10 kg of variety B rice at Rs.  $(X + 5)$  per kg. The shopkeeper sold the whole quantity of variety A rice at 10% profit and that of variety B rice at 20% profit. The total selling price of variety A rice was Rs. 30 more than that of variety B rice. Had the two varieties been mixed and sold at an overall profit of 20%, what would have been the selling price (per kg)?

- A. Rs. 25.00
- B. Rs. 23.20
- C. Rs. 24.20
- D. Rs. 26.40
- E. None of these

**Answer: D**

9. Tony, Monu and James completed a work together in 36 days and received a total payment of Rs. 54000. Tony took half of the total money, Monu took one third and James took remaining. In how many days, Tony and James would have finished the work if Monu was not working?

- A. 72 days
- B. 64 days
- C. 96 days
- D. 54 days
- E. Can't be determined

**Answer: D**

10. 1, 6, 13, 22, 33, ?

- A. 46
- B. 45
- C. 44
- D. 47

**Answer: A**

11. A manufacture undertakes to supply 2000 pieces of a particular component at Rs.25 per piece. According to his estimates, even if 5% fail to pass the quality tests, then he will make a profit of 25%. However as it turned out, 50% of the components were rejected. What is the loss to the manufacture?

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- A. Rs 12,000
- B. Rs 13,000
- C. Rs 14,000
- D. Rs 15,000

**Answer: B**

12. Ram bought 30 liters of milk at the rate of Rs.8 per liter. He got it churned after spending Rs.10 and 5kg of cream and 30 liter of toned milk were obtained. If he sold the cream at Rs.30 per kg and toned milk at Rs.4 per liter, his profit in the transaction is:

- A. 30%
- B. 20%
- C. 8%
- D. 40%

**Answer: C**

13. The sale price of an article including the sale tax is Rs. 616. The rate of sale tax is 10%. If the shopkeeper has made a profit of 12%, the cost price of the article is

- A. Rs 600
- B. Rs 515
- C. Rs 500
- D. Rs 550

**Answer: C**

14. When an article is sold for Rs.3400, there is a loss of 2%. What is the cost price of the commodity?

- A. Rs 3500.50
- B. Rs 3200
- C. Rs 3400.56
- D. Rs 3469.34

**Answer: D**

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15. The marked price of a watch was Rs. 720. A man brought the same for Rs. 550.80 after getting two successive discounts the first being 10%. What was the second discount rate?
- A. 12%
  - B. 15%
  - C. 18%
  - D. 14%

**Answer: B**

16. Deepak bought a refrigerator with 20% discount on the labeled price. Had he bought it with 30% discount, he would have saved Rs. 500 more. At what price did he buy the refrigerator?
- A. Rs 12,500
  - B. Rs 10,000
  - C. Rs 15,000
  - D. Rs 5000

**Answer: D**

17. If the S.P of Rs. 40 results in a 20% discount on list price. What S.P would result in a 30% discount on list price?
- A. Rs 35
  - B. Rs 18
  - C. Rs 20
  - D. Rs 27

**Answer: A**

18. A discount of 25% on one article is same as a discount of 50% on another article. The costs of two articles can be:
- A. Rs 30, Rs 20
  - B. Rs 80, Rs 40
  - C. Rs 90, Rs 40
  - D. Rs 50, Rs 40

**Answer: B**

19. An article is listed at Rs. 2000 and a discount of 20% is offered on the list price. What additional discount must be offered to the customer bring the net price to Rs. 1400?

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- A. 12%
- B. 10%
- C. 15%
- D. 12.5%

**Answer: D**

20. A shopkeeper gives 12% additional discount on the discounted price, after giving an initial discount of 20% on the labeled price of a mobile. If the final sale price of the mobile is 704. Then what is its labeled price?

- A. Rs 844
- B. Rs 920
- C. Rs 1000
- D. Rs 1100

**Answer: C**

21. The difference between the cost price and sale price of an article is Rs. 500 if the profit is 20%. The selling price is

- A. Rs 3000
- B. Rs 4000
- C. Rs 3300
- D. Rs 1500

**Answer: A**

22. A dealer sold a Radio at a loss of 2.5%. Had he sold it for Rs. 100 more, he would have gained 7.5%. To gain 12.5% he should sell it for

- A. Rs 1000
- B. Rs 2200
- C. Rs 1100
- D. Rs 1125

**Answer: D**

23. The cash difference between the selling price of an article at a profit of 8% and 4% is Rs 3 the ratio of the two selling price is

- A. 51 : 52

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- B. 51 : 53
- C. 27 : 26
- D. 52 : 55

**Answer: C**

24. A man sells two flats at the rate of Rs. 2 lakhs each. On one he gains 3% and on the other, he loses 3%. His gain or loss % in the whole transaction is

- A. 9% loss
- B. 2% loss
- C. 3% loss
- D. 25% loss

**Answer: A**

25. A house and shop were sold for Rs. 1 lakh each. In this transaction the house sell resulted into 20% loss whereas the shop sell resulted into 20% of profit. The entire transaction resulted in:

- A. no loss no gain
- B. loss of Rs 4lakh
- C. loss of Rs 1/12 lakh
- D. gain of Rs 6lakh

**Answer: C**

26. Reshma purchased 120 chairs at price of Rs. 110 per chair. He sold 30 chairs at a profit of Rs. 12 per chair and 75 chairs at profit of Rs. 14 per chairs. The remaining chairs were sold at a loss of Rs. 7 per chairs. What is the average profit per table?

- A. Rs 10.56
- B. Rs 12.123
- C. Rs 12.67
- D. Rs 10.87

**Answer: D**

27. Raghu sold 10 sarees for a total profit of Rs. 460 and 12 sarees for a total profit of Rs. 144. At what profit per saree should he sell the remaining 20 sarees so that he gets an average profit of Rs. 18 per sarees?

- A. Rs 7.10

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- B. Rs 7.99
- C. Rs 7.60
- D. D. Rs 8

**Answer: C**

28. Suresh purchased 20 dozen notebook at Rs. 48 per dozen. He sold 8 dozen at 10% profit and remaining 12 dozen with 20% profit. What is his profit percentage in the transaction?

- A. 8%
- B. 15%
- C. 16%
- D. 19%

**Answer: C**

29. A man purchased wheat worth Rs. 400. He sold  $\frac{3}{4}$  at a loss of 10% and the remainder at a gain of 10%. On the whole he gets:

- A. loss of 5%
- B. gain of 5
- C. loss of 19%
- D. loss of 6%

**Answer: A**

30. Reema buys dress for 10% less than its value and sells it for 10% more than its value. His gain or loss percent is:

- A. more than 20% profit
- B. no profit, no loss
- C. 20% profit
- D. less than 20% profit

**Answer: A**