

Sopra Steria Arithmetic Ability Questions

Q1. In a 100 m race, A beats B by 10 m and C by 13 m. In a race of 180 m, B will beat C by:

- A. 5.4 m**
- B. 4.5 m**
- C. 5 m**
- D. 6 m**

Q2. The difference of two numbers is 1365. On dividing the larger number by the smaller, we get 6 as quotient and the 15 as remainder. What is the smaller number?

- A. 240**
- B. 270**
- C. 295**
- D. 360**

Q3. If 80 lamps can be lighted 5 hours per day for 10 days for Rs.21.24 then the number of lamps which can be lighted 4 hours daily for 30 days for Rs.76.50 is

- A. 120**
- B. 110**
- C. 100**
- D. 130**

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Q4. An observer 1.6 m tall is 203 away from a tower. The angle of elevation from his eye to the top of the tower is 30 degree. The height of the tower is:

- A. 21.6 m
- B. 23.2 m
- C. 24.72 m
- D. None of these

Q5. Two dice are tossed the probability that the total score is a prime number?

- A. $12/5$
- B. $3/17$
- C. $5/17$
- D. $5/12$

Q6. A train 280 m long is moving at 60 kmph. The time taken by the train to cross a tunnel 220 m long is:

- A. 30
- B. 10
- C. 70
- D. 80

Q7. Five years ago, the average age of P and Q was 15 years, average age of P, Q and R today is 20 years, how old will R be after 10 years?

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- A. 30 yrs
- B. 35 yrs
- C. 40 yrs
- D. 45 yrs

Q8. In what time will a train 100 metres long cross an electric pole, if its speed is 144 km/hr?

- A. 2.5 sec
- B. 4.25 sec
- C. 5 sec
- D. 12.5 sec

Q9. A number on subtracting 15 from it, reduces to its 80%. What is 40% of that number?

- A. 30
- B. 40
- C. 35
- D. 50

Q10. In what ratio must water be mixed with milk to gain $16\frac{2}{3}\%$ on selling the mixture at cost price?

- A. 1: 3

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B. 6: 1

C. 3: 1

D. 1: 6

Q11. A man rows to a place 48 km distant and back in 14 hours. He finds that he can row 4 km with the stream in the same time as 3 km against the stream. The rate of the stream is

A. 1 km/hr

B. 4 km/hr

C. 2 km/hr

D. 3 km/hr

Q12. In what ratio must water be mixed with milk to gain $16\frac{2}{3}\%$ on selling the mixture at cost price?

A. 1:6

B. 8:1

C. 1:8

D. 6:1

Q13. Mr. Manager took a loan of Rs.25000/- for 5 years at SI. If the interest paid was Rs.12500/- what is the rate of interest per annum?

A. 30 percent

B. 40 percent

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C. 35 percent

D. 10 percent

Q14. A man invested Rs. 4455 in Rs. 10 shares quoted at Rs. 8.25. If the rate of dividend be 12%, his annual income is:

A. Rs. 207.40

B. Rs. 534.60

C. Rs. 648

D. Rs. 655.60

Q15. The length of a rectangle is twice its breadth if its length is decreased by 5 cm and breadth is increased by 5 cm, the area of the rectangle is increased by 75 sq cm. Find the length of the rectangle.

A. 20 cm

B. 80 cm

C. 40 cm

D. 60 cm

Q16. The ratio between the present ages of A and B is 5: 3 respectively. The ratio between As age 4 years ago and Bs age 4 years hence is 1: 1. What is the ratio between As age 4 years hence and Bs age 4 years ago?

A. 1: 3

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B. 2: 1

C. 3: 1

D. 4: 1

Q17. Two trains starting at the same time from 2 stations 200 km apart and going in opposite direction cross each other at a distance of 110 km from one of the stations. What is the ratio of their speeds?

A. 11:9

B. 9:11

C. 7:13

D. 13:7

Q18. A cistern can be filled in 9 hours but it takes 10 hours due to a leak in its bottom. If the cistern is full, then the time that the leak will take to empty it is

A. 80 hr

B. 90 hr

C. 70 hr

D. 50 hr

Q19. Today is 1st April. The day of the week is Wednesday. This is a leap years. The day of the week on this day after 3 years will be

A. Monday

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- B. Saturday
- C. Wednesday
- D. Friday

Q20. A piece of cloth cost Rs 35. If the length of the piece would have been 4m longer and each meter cost Re 1 less, the cost would have remained unchanged. How long is the piece?

- A. 12 m
- B. 10 m
- C. 15 m
- D. 20 m