

SBI Clerk Prelims 2021 Quantitative Aptitude Practice PDF with Solution



Direction: Find the wrong number in the series.

1. 2, 3, 7, 22, 89, 459
A. 459
B. 2
C. 7
D. 22
E. None of these

Directions: In the following number series, a wrong number is given. Find out the wrong number.

2. 600, 125, 30, 13, 7.2, 6.44, 6.288
A. 600
B. 125
C. 30
D. 6.288
E. 13

Direction: One of the numbers is wrong in given number series. Find out the number and mark that as your answer.

3. 7, -1, 35, -55, 135, -210
A. -1
B. 35
C. -55
D. 135
E. -210

Direction: In the following number series, a wrong number is given. Find out that wrong number.

4. 7, 18, 51, 104, 183, 282
A. 7
B. 18
C. 51
D. 104
E. 282

Direction: In each of these questions a number series is given. In each series only one number is wrong. Find out that number.

5. 79, 77, 81, 74, 89, 57, 121
A. 121
B. 81
C. 57
D. 74
E. 77



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Direction: What value should come in place of the question mark (?) in the following question?

6. $(1.4)^8 \times (1.96)^4 \div (2.744)^3 = (1.4)^?$

- A. 7
- B. 6
- C. 4
- D. 8
- E. None of these

Direction: What should come in place of question mark (?) in the following question?

7. $2.5 \times 27 \div 0.75 \times 6.2 = ? \times 15$

- A. 37.75
- B. 36.90
- C. 35.50
- D. 37.20
- E. 38.50

Direction: What value should come in place of the question mark (?) in the following question? 8. $\sqrt{54 \times 24 \div 18 + 26 - 73} = ?$

- A. $\sqrt{5}$
- B. $(25)^2$
- C. 25
- D. 5
- E. None of these

Direction: What should come in place of the question mark (?) in the following questions?

9. $25\% \text{ of } 965 - 69\% \text{ of } ? = 210.2$

- A. 50
- B. 49
- C. 55
- D. 45
- E. 46

Direction: What value will come in place of the question mark (?) in the following question? 10. $4785 \div \sqrt{?} + 6 = 963$

- A. 25
- B. 16
- C. 36
- D. 49
- E. None of these



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11. The age of 5 friends are in the ratio 1 : 2 : 3 : 4 : 5. The age of the oldest among the five friends is 50 years. Find the age of friend whose age is twice the age of the youngest friend.

- A. 10 years
- B. 20 years
- C. 15 years
- D. 12 years
- E. 8 years

12. Truck X leaves the city at 10 AM and the speed is 40km/hr. After 3 hours another truck Y leaves the city in the same direction as truck X. In how much time will truck Y be 20 km ahead of truck X if the speed of truck Y is 60 km/hr?

- A. 6 .4 hours
- B. 8 hours
- C. 7 hours
- D. 7 .2 hours
- E. None of these

13. A cistern has two taps which fill it in 12 minutes and 15 minutes respectively. There is also a waste pipe in the cistern. When all the three are opened, the empty cistern is full in 20 minutes. How long will the waste pipe take to empty the full cistern?

- A. 20 min
- B. 40 min
- C. 30 min
- D. 10 min
- E. None of these

14. What will Rs 200 at 20% per annum after 6 months compounded quarterly amount to?

- A. Rs. 222
- B. Rs. 225.5
- C. Rs. 220.5
- D. Rs. 203
- E. Rs. 205.6

15. A man can row in still water with the speed of 33 km/hr and speed of current 7 km/hr. If he goes and return in total 16.5 hrs, what is the distance travelled from one side?

- A. 520 km
- B. 130 km
- C. 260 km
- D. 240 km
- E. 280 km



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ANSWERS:

1. Ans. A.

Pattern of the given series is:

$$2 \times 1 + 1 = 3$$

$$3 \times 2 + 1 = 7$$

$$7 \times 3 + 1 = 22$$

$$22 \times 4 + 1 = 89$$

$$89 \times 5 + 1 = \mathbf{446}$$

2. Ans. E.

Pattern of the given series is:

$$600 \div 5 + 5 = 125$$

$$125 \div 5 + 5 = 30$$

$$30 \div 5 + 5 = \mathbf{11}$$

$$11 \div 5 + 5 = 7.2$$

$$7.2 \div 5 + 5 = 6.44$$

$$6.44 \div 5 + 5 = 6.288$$

Hence, option E is correct.

3. Ans. E.

Pattern of the given series is:

$$6 + 1^3 = 7$$

$$7 - 2^3 = -1$$

$$8 + 3^3 = 35$$

$$9 - 4^3 = -55$$

$$10 + 5^3 = 135$$

$$11 - 6^3 = \mathbf{-205}$$

Hence, option E is correct.

4. Ans. D.

Pattern of the given series is:

$$7 + (1 \times 11) = 18$$

$$18 + (3 \times 11) = 51$$

$$\mathbf{51 + (5 \times 11) = 106}$$

$$106 + (7 \times 11) = 183$$

$$183 + (9 \times 11) = 282$$

Hence, option D is correct.

5. Ans. D.

Pattern of the given series is:

$$79 - 2 = 77$$

$$77 + 4 = 81$$

$$81 - 8 = \mathbf{73}$$

$$73 + 16 = 89$$

$$89 - 32 = 57$$

$$57 + 64 = 121$$

Hence, option D is correct.



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6. Ans. A.

$$\begin{aligned}(1.4)^8 \times (1.96)^4 \div (2.744)^3 &= (1.4)^? \\ \Rightarrow (1.4)^8 \times [(1.4)^2]^4 \div [(1.4)^3]^3 &= (1.4)^? \\ \Rightarrow (1.4)^8 \times (1.4)^8 \div (1.4)^9 &= (1.4)^? \\ \Rightarrow (1.4)^{8+8-9} &= (1.4)^? \\ \Rightarrow (1.4)^7 &= (1.4)^? \\ \Rightarrow ? &= 7\end{aligned}$$

7. Ans. D.

$$\begin{aligned}2.5 \times 27 \div 0.75 \times 6.2 &= ? \times 15 \\ \Rightarrow \frac{25}{10} \times 27 \times \frac{100}{75} \times \frac{62}{10} &= ? \times 15 \\ \Rightarrow 9 \times 62 &= ? \times 15 \\ \Rightarrow 3 \times 62 &= ? \times 5 \\ \Rightarrow 186 &= ? \times 5 \\ \Rightarrow ? &= 37.20\end{aligned}$$

8. Ans. D.

$$\begin{aligned}?\ &= \sqrt{54 \times 24 \div 18 + 26 - 73} \\ &= \sqrt{54 \times \frac{24}{18} + 26 - 73} \\ &= \sqrt{72 + 26 - 73} \\ &= \sqrt{25} \\ &= 5\end{aligned}$$

9. Ans. D.

$$\begin{aligned}25\% \text{ of } 965 - 69\% \text{ of } ? &= 210.2 \\ \Rightarrow \frac{25}{100} \times 965 - \frac{69}{100} \times ? &= 210.2 \\ \Rightarrow \frac{965}{4} - 0.69 \times ? &= 210.2 \\ \Rightarrow 241.25 - 0.69 \times ? &= 210.2 \\ \Rightarrow 0.69 \times ? &= 241.25 - 210.2 \\ \Rightarrow ? &= \frac{31.05}{0.69} = \frac{3105}{69} = 45\end{aligned}$$

10. Ans. A.

$$\begin{aligned}4785 \div \sqrt{?} + 6 &= 963 \\ \frac{4785}{\sqrt{?}} &= 963 - 6 \\ \Rightarrow \sqrt{?} &= \frac{4785}{957} \\ \Rightarrow \sqrt{?} &= 5 \\ \Rightarrow ? &= 5^2 = 25\end{aligned}$$



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11. Ans. B.

Let the age of the 5 friends be x , $2x$, $3x$, $4x$ and $5x$ respectively.

According to the data provided in the question, we get

Age of the oldest friend = $5x$

$$5x = 50$$

$$\Rightarrow x = 10$$

Therefore, age of the friend whose age is twice the age of the youngest friend = $2x$
 $= 2 \times 10 = 20$ years

12. Ans. C.

Distance covered by truck X in 3 hours = $3 \times 40 = 120$ km

Distance to be covered by truck Y to get 20 km ahead of truck X

$$= 120 + 20 = 140 \text{ km}$$

Relative speed = $60 - 40 = 20$ km/h

Required time = $140/20 = 7$ hours

Hence, option B is correct.

13. Ans. D.

Let the waste pipe can empty the tank in x minutes.

According to question,

$$\frac{1}{12} + \frac{1}{15} - \frac{1}{x} = \frac{1}{20}$$

$$\Rightarrow \frac{1}{x} = \frac{1}{12} + \frac{1}{15} - \frac{1}{20} = \frac{1}{10}$$

$$\Rightarrow x = 10$$

14. Ans. C.

Rate of interest for one quarter = $20/4 = 5\%$

$$\text{Amount after 6 months} = 200 \left(1 + \frac{5}{100}\right)^2$$

= Rs 220.5

15. Ans. C.

Let the distance be D .

$$\frac{D}{33+7} + \frac{D}{33-7} = 16.5$$

$$\Rightarrow \frac{D}{40} + \frac{D}{26} = 16.5$$

$$\Rightarrow \frac{13D + 20D}{520} = 16.5$$

$$\Rightarrow \frac{33D}{520} = 16.5$$

$$\Rightarrow D = 260 \text{ km}$$



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