

Quiz Date: 24th February 2020

Direction (1 – 5) : What will come in the place of (?) mark in following question.

Q1. $1024 \div 8 \div 4 = 256 \div ?$

- (a) 5
- (b) 8
- (c) 10
- (d) 9
- (e) 4

Q2. $\frac{1}{5}$ of $(\sqrt{625} + \sqrt{900}) \times 2 = \frac{?}{2}$

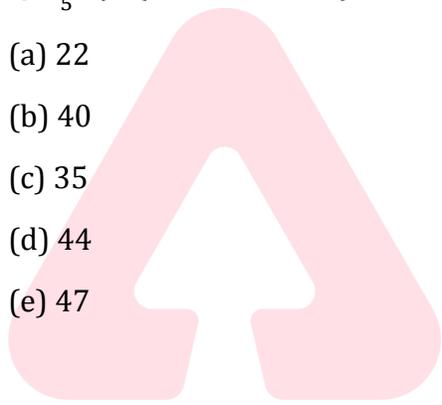
- (a) 22
- (b) 40
- (c) 35
- (d) 44
- (e) 47

Q3. $(80\% \text{ of } 125 + 125\% \text{ of } 80) \div ? = 20$

- (a) 8
- (b) 10
- (c) 9
- (d) 6
- (e) 5

Q4. $4\frac{2}{3} + 3\frac{1}{3} = ? - 3\frac{2}{3} + 2\frac{1}{3}$

- (a) $8\frac{1}{3}$
- (b) $9\frac{2}{3}$



(c) $9\frac{1}{3}$

(d) $8\frac{2}{3}$

(e) $10\frac{2}{3}$

Q5. $\sqrt{289} + \sqrt{121} + 9^2 = ? + \sqrt{441}$

(a) 68

(b) 64

(c) 62

(d) 72

(e) 88

Q6. Two containers contain mixture of milk and water in ratio of 3:2 and 2:3 respectively. If equal quantity of both is mixed then find the ratio of milk to water in final mixture?

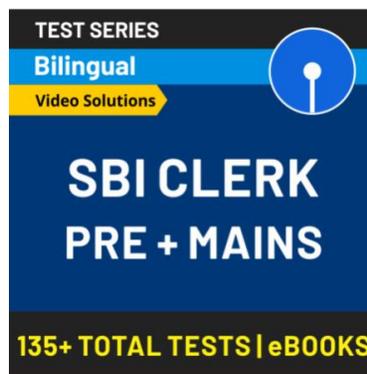
(a) 2:3

(b) 3:2

(c) 2:5

(d) 1:1

(e) 5:2



Q7. The simple interest on a certain sum of money at 10% per annum for 3 years be Rs. 2100. Find out the compound interest on Rs.2000 more than initial sum at same rate of interest for 2 years?

- (a) Rs 1760
- (b) Rs 1820
- (c) Rs 1800
- (d) Rs 1585
- (e) Rs 1890

Q8. A boat takes 2 hours less to cover 240 km in downstream than that of in upstream. Speed of boat in still water and stream is in the ratio of 5:1. Find the speed of boat in still water?

- (a) 50 kmph
- (b) 40 kmph
- (c) 45 kmph
- (d) 60 kmph
- (e) 48 kmph

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Q9. Deepak & Aayush entered into a partnership by investing the capital of Rs. 21000 and Rs. 35000. Due to some reason Deepak withdraws Rs. 6000 after 4 months. Aayush gets Rs. 2100 as the profit at the end of year. Find the share profit of Deepak?

- (a) Rs 1000
- (b) Rs 1020
- (c) Rs 1200
- (d) Rs 1050
- (e) Rs 1250

Q10. If length and breadth of a rectangle increases by 20% and 10% respectively then area of the rectangle increased to 198 cm^2 , then find the original area of the rectangle?

- (a) 144 cm^2
- (b) 158 cm^2
- (c) 150 cm^2
- (d) 120 cm^2

(e) can't be determined

Q11. 18 men can do a work in 5 days while 20 women can do the same work in 9 days. In how many days 3 men & 9 women together can do the same work?

(a) 12 days

(b) 24 days

(c) 18days

(d) 15 days

(e) 16 days

Q12. A train can cover a certain distance in 8 hours at the speed of x kmph then by what percent should the speed of train be increased to cover the same distance in 5 hours?

(a) 60%

(b) 40%

(c) 50%

(d) 100%

(e) 75%

Q13. The ratio of the ages of Veer and Avanti 4 years ago was 13:10. The ratio of their ages 6 years hence will be 6:5. Find the age difference of Veer and Avanti 9 years hence?

(a) 5 years

(b) 3 years

(c) 6 years

(d) 7 years

(e) None of these

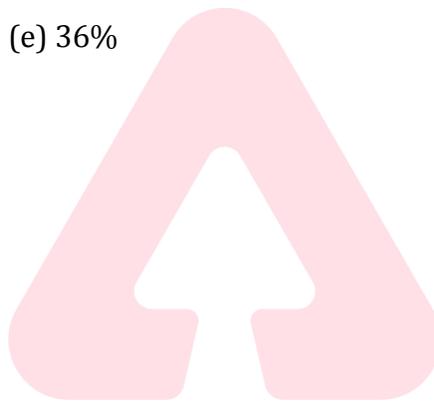
Q14. Two trains A and B of same length are running in opposite direction on the parallel tracks. If they take to cross a pole is in 8 sec and 4 sec then, find time taken by the trains to cross each other?

(a) 7.33 sec

- (b) 12 sec
- (c) 4.2 sec
- (d) 5.33 sec
- (e) Cannot be determined

Q15. If a discount of $14\frac{2}{7}\%$ is given on an article then 20% profit is earned, then find the profit percent if the article is sold at marked price?

- (a) 35%
- (b) 40%
- (c) 42%
- (d) None of these
- (e) 36%



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Solutions

S1. Ans(b)

$$\frac{1024}{8 \times 4} = \frac{256}{?}$$

$$? = \frac{256}{32}$$

$$? = 8$$

S2. Ans(d)

Sol.

$$(25 + 30) \times \frac{2}{5} = \frac{?}{2}$$

$$? = 44$$

S3. Ans(b)

Sol.

$$\left(\frac{80}{100} \times 125 + \frac{125}{100} \times 80 \right) \div ? = 20$$

$$? = 200 \div 20$$

$$? = 10$$

S4. Ans(c)

Sol.

$$? = (4 + 3 + 3 - 2) + \frac{2+1+2-1}{3}$$

$$? = 9 \frac{1}{3}$$

S5. Ans(e)

Sol.

$$? = 17 + 11 + 81 - 21$$

$$? = 88$$

S6. Ans(d)

Sol. let initial quantity of milk & water in both containers be $3x$ & $2x$ lit and $2y$ and $3y$ lit respectively.

Since both containers mixed in same quantity.

So, $x = y$

ATQ,

$$\text{Required ratio} = \frac{3x+2y}{2x+3y} = 1:1$$

S7. Ans(e)

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Sol. let Principal be P

$$\text{ATQ, } 2100 = \frac{P \times 10 \times 3}{100}$$

$$P = 7000$$

$$\begin{aligned} \text{Effective rate of interest for 2 years} &= 10 + 10 + 10 \times \frac{10}{100} \\ &= 21\% \end{aligned}$$

$$\text{Required interest} = \frac{9000 \times 21 \times 1}{100} = \text{Rs } 1890$$

S8. Ans(a)

Sol. let speed of boat in still water & speed of stream be $5x$ & x kmph respectively

$$\text{ATQ, } \frac{240}{5x-x} - \frac{240}{5x+x} = 2$$

$$x = 10$$

$$\text{required speed} = 5x = 50 \text{ kmph}$$

S9. Ans(b)

Sol.

$$\begin{aligned} \text{Profit ratio} = \text{Deepak: Aayush} &= (21000 \times 4) + (15000 \times 8) : 35000 \times 12 \\ &= 17:35 \end{aligned}$$

ATQ,

$$\begin{aligned} \text{Required share} &= \frac{17}{35} \times 2100 \\ &= \text{Rs } 1020 \end{aligned}$$

S10. Ans(c)

Sol. let length & breadth of rectangle be x & y m respectively

ATQ,

$$1.2x \times 1.1y = 198$$

$$\text{So, required area } (x \times y) = 150 \text{ cm}^2$$

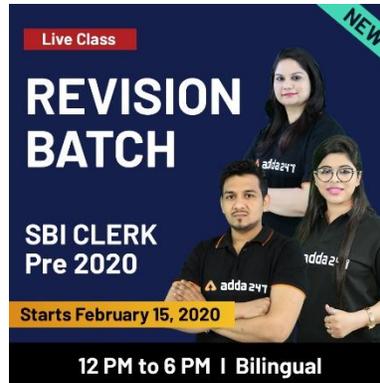
S11. Ans(a)

Sol. let total work be 180 units

$$\text{Efficiency of 1 man} = \frac{180}{18 \times 5} = 2 \text{ units/day}$$

$$\text{Efficiency of 1 woman} = \frac{180}{20 \times 9} = 1 \text{ units/day}$$

$$\text{Required time} = \frac{180}{3 \times 2 + 9 \times 1} = 12 \text{ days}$$



S12. Ans(a)

Sol.

$$\text{Total distance} = 8 \times x = 8x \text{ km}$$

$$\text{Required speed} = \frac{8x}{5} = 1.6x \text{ kmph}$$

$$\text{Required \%} = \frac{1.6x - x}{x} \times 100 = 60\%$$

S13. Ans.(c)

Sol.

Let 4 years ago, ages of Veer and Avanti were $13x$ years and $10x$ years, respectively.

$$\text{Then, present age of Veer} = (13x + 4)$$

$$\text{and present age of Avanti} = (10x + 4)$$

According to the question,

$$\frac{13x+4+6}{10x+4+6} = \frac{6}{5}$$

$$\Rightarrow 65x + 50 = 60x + 60$$

$$\Rightarrow 5x = 10$$

$$\therefore x = 2$$

$$\begin{aligned}\text{Hence, required difference} &= 13 \times 2 - 10 \times 2 \\ &= 6 \text{ years}\end{aligned}$$

S14. Ans(d)

$$\text{Sol. required time} = \frac{2 \times 8 \times 4}{(8+4)}$$

$$= \frac{16}{3} = 5.33 \text{ sec}$$

S15. Ans(b)

Sol. let CP of article be Rs $5x$

$$\text{SP} = \text{Rs } 6x$$

$$\text{MRP} = \text{Rs. } 7x$$

ATQ,

$$\frac{7x-5x}{5x} \times 100$$

$$= 40\%$$

