

SBI Clerk 2019 Quant Aptitude

Previous Year Ques. Paper

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

1. $3025 \div (? + 17) = 11^2$

- A. 6
- B. 8
- C. 3
- D. 18
- E. 13

2. ?% of $450 + 1240 = 1600$

- A. 40
- B. 60
- C. 80
- D. 72
- E. 75

3. $81^3 \times 6^2 \times 18^{-2} = 3^{12-?}$

- A. 4
- B. 8
- C. 2
- D. 5
- E. 3

4. $(428 - ?) \div 16 \times 25 = 300$

- A. 276
- B. 324
- C. 428
- D. 272
- E. 236

5. $244.28 + 22.42 + ? = 300$

- A. 42.13
- B. 44.23
- C. 33.3
- D. 31.7
- E. 46.44

6. Diameter of a circular field is equal to the side of a square field. If the total cost of fencing the circular field is Rs 440 (@ of Rs 5 per meter), what is the perimeter of the square fields? (in metre)

- A. 104
- B. 116
- C. 128
- D. 88
- E. 112

7. A boat takes 5 hrs to travel 105 km downstream. The speed of the boat in downstream is 1.4 times of the speed of the boat in upstream. What is the speed of the current? (in kmph)

- A. 3
- B. 4
- C. 3.5
- D. 2.5
- E. 5

Direction: Find the wrong term in given number series.

8. 120, 128, 125, 140, 130, 145, 135

- A. 120
- B. 128
- C. 125
- D. 140
- E. 130

9. 1440, 240, 48, 12, 4, 3, 2

- A. 48
- B. 12
- C. 4
- D. 3
- E. 2



Direction: (10-14) Read carefully the following data carefully and answer the following Questions. Number of pen sold by four stores A, B, C and D the on 5 different days of the week from Monday to Friday is given in the table.

DAY	A	B	C	D
MON	27	33	21	9
TUE	32	31	28	29
WED	38	50	34	16
THU	16	26	15	13
FRI	36	45	20	24

10. On Friday, out of total number of pens sold by stores B, C and D, 20%, 15% and 75% respectively were of brand X, what is the total number of pens of brand X sold by stores B, C and D together on Friday?

A. 50
B. 20
C. 40
D. 42
E. 30

11. Find the Average number of pens sold by store A on Monday, Tuesday and Thursday.

A. 35
B. 30
C. 25
D. 28
E. 32

12. What is the ratio between the total number of pen sold by stores

B, C and D together on Monday and that sold by the same stores on Thursday?

A. 5 : 7
B. 7 : 6
C. 4 : 7
D. 7 : 5
E. 6 : 5

13. On Saturday the number of pen sold by store A was $\frac{5}{9}$ th of that sold on Friday by the same store. What was the number of pen sold by store A on Saturday?

A. 10
B. 15
C. 20
D. 25
E. 23

Direction: In the following question two equations are given in variables X and Y. You have to solve these equations and determine relation between X and Y.

14. $6x^2 + 5x + 1 = 0$
 $15y^2 + 8y + 1 = 0$

A. If $X > Y$
B. If $X < Y$
C. If $X \leq Y$
D. If $X \geq Y$
E. If $X=Y$ or No relation can be established

Direction: In the following question two equations are given in variables X and Y. You have to solve these equations and determine relation between X and Y.



15. $x^2 - 7x + 10 = 0$

$y^2 - 5y + 6 = 0$

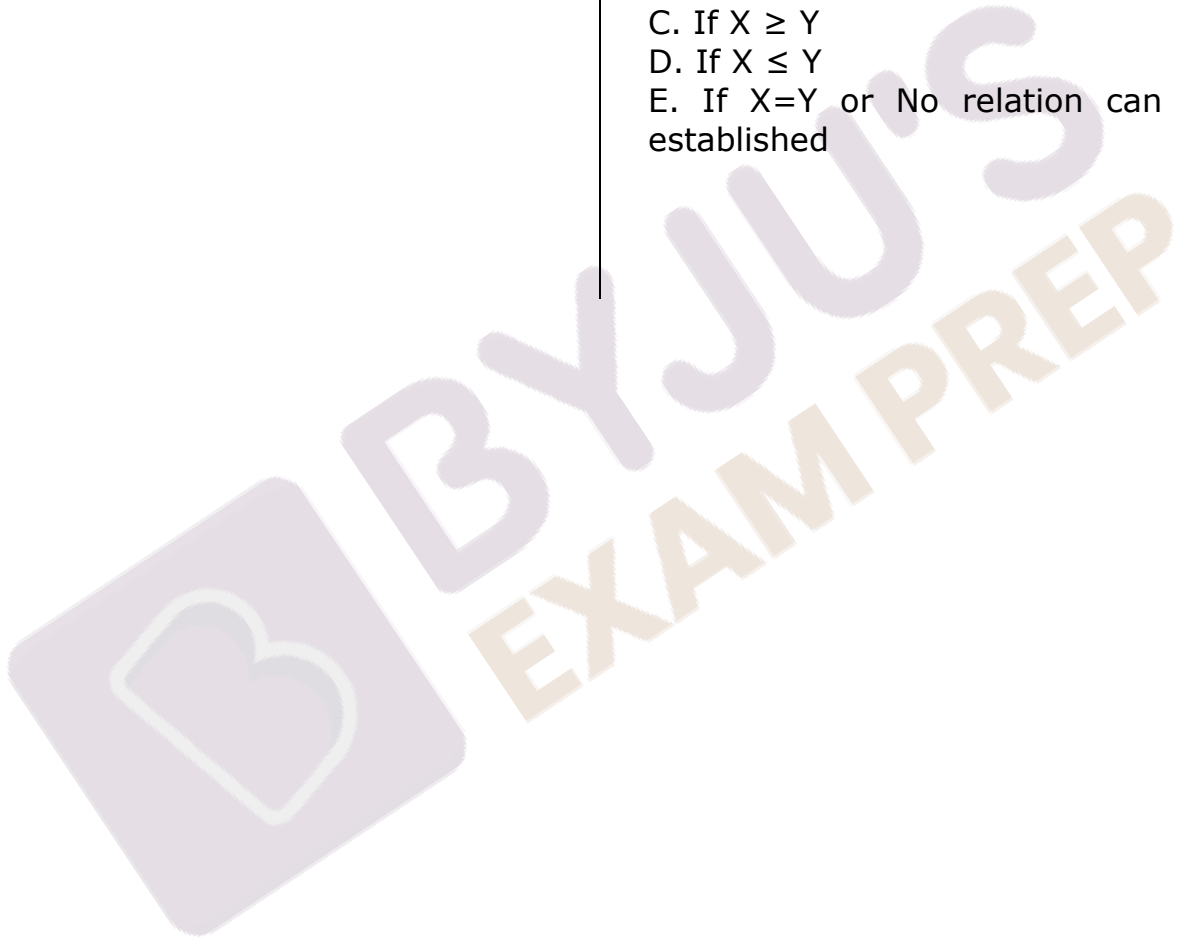
- A. If $X > Y$
- B. If $X < Y$
- C. If $X \geq Y$
- D. If $X \leq Y$
- E. If $X=Y$ or No relation can be established

Direction: In the following question two equations are given in variables X and Y. You have to solve these equations and determine relation between X and Y.

16. $x + 18 = 32$

$y^2 = 196$

- A. If $X > Y$
- B. If $X < Y$
- C. If $X \geq Y$
- D. If $X \leq Y$
- E. If $X=Y$ or No relation can be established



ANSWERS

1. Ans. B.

$$3025 \div (? + 17) = 11^2$$

$$\frac{3025}{(? + 17)} = 121$$

$$3025 = 121? + 2057$$

$$121? = 968$$

$$? = \frac{968}{121} = 8$$

2. Ans. C.

$$?\% \text{ of } 450 + 1240 = 1600$$

$$?\% \text{ of } 450 = 360$$

$$(? * 450)/100 = 360$$

$$? = 80$$

3. Ans. C.

$$\frac{81 \times 81 \times 81 \times 6 \times 6}{18 \times 18} = 3^{12} - ?$$

$$3^3 \times 3^3 \times 3^4 = 3^{12} - ?$$

$$(3)^{10} = 3^{12} - ?$$

$$12 - ? = 10$$

$$? = 2$$

4. Ans. E.

$$(428 - ?) \div 16 \times 25 = 300$$

$$(428 - ?) \div 16 = 300/25$$

$$(428 - ?) \div 16 = 12$$

$$(428 - ?) = 12 * 16$$

$$(428 - ?) = 192$$

$$? = 428 - 192 = 236$$

5. Ans. C.

$$244.28 + 22.42 + ? = 300$$

$$266.7 + ? = 300$$

$$? = 300 - 266.7$$

$$? = 33.3$$

6. Ans. E.

$$\text{Circumference of Circle} = 2 \times \frac{22}{7} \times r$$

$$= \frac{440}{5}$$

$$2r = 28 \text{ meter}$$

$$\text{So Perimeter of square} = 28 \times 4 = 112 \text{ meter}$$

7. Ans. A.

$$\text{Speed of downstream} = \frac{105}{5} = 21 \text{ km/hr}$$

$$\text{Ratio between downstream \& upstream speed} = 1.4 : 1$$



$$= 7 : 5$$

So 7 @ 21

$$5 @ \frac{21}{7} \times 5 = 15 \text{ km/hr}$$

$$\text{So speed of stream} = \frac{21-15}{2} = 3 \text{ km/hr}$$

8. Ans. B.

The pattern of the given series is:

$$\begin{aligned} 120 + 15 &= \mathbf{135} \\ 135 - 10 &= 125 \\ 125 + 15 &= 140 \\ 140 - 10 &= 130 \\ 130 + 15 &= 145 \\ 145 - 10 &= 135 \end{aligned}$$

9. Ans. D.

The pattern of the given series is:

$$\begin{aligned} 1440 \div 6 &= 240 \\ 240 \div 5 &= 48 \\ 48 \div 4 &= 12 \\ 12 \div 3 &= 4 \\ 4 \div 2 &= \mathbf{2} \\ 2 \div 1 &= 2 \end{aligned}$$

10. Ans. E.

On Friday,
Total number of pen of brand X
sold by store B = 20% of 45 = 9

Total number of pen of brand X
sold by store C = 15% of 20 = 3
Total number of pen of brand X
sold by store D = 75% of 24 = 18
Hence, the total number of pen
sold of brand X by stores B, C and
D together on Friday = 9 + 3 + 18
= 30.

11. Ans. C.

Required average number of pen
sold = $\frac{27+32+16}{3} = 25$

12. Ans. B.

Total Number of pen sold by stores
B, C and D together on Monday =
33 + 21 + 9 = 63

Total Number of pen sold by stores
B, C and D together on Thursday =
26 + 15 + 13 = 54

Hence, the required ratio = 63 :
54 = 7 : 6.

13. Ans. C.

Number of pen sold by A on Friday
= 36

Hence, the number of pen sold by
A on Saturday = $36 \times \frac{5}{9} = 20$



14. Ans. C.

$$6x^2 + 5x + 1 = 0$$
$$\Rightarrow X = -1/2, -1/3$$

$$15y^2 + 8y + 1 = 0$$
$$\Rightarrow Y = -1/5, -1/3$$

Answer - **Y ≥ X**

15. Ans. E.

$$x^2 - 7x + 10 = 0$$
$$\Rightarrow x^2 - 5x - 2x + 10 = 0$$
$$\Rightarrow x(x - 5) - 2(x - 5) = 0$$
$$\Rightarrow (x - 2)(x - 5) = 0$$
$$\Rightarrow x = 2, x = 5$$

$$y^2 - 5y + 6 = 0$$
$$\Rightarrow y^2 - 3y - 2y + 6 = 0$$
$$\Rightarrow y(y - 3) - 2(y - 3) = 0$$
$$\Rightarrow (y - 3)(y - 2) = 0$$
$$y = 3, y = 2$$

Hence, answer is option E.

16. Ans. C.

$$x + 18 = 32$$
$$\Rightarrow X = 14$$

$$y^2 = 196$$
$$\Rightarrow Y = +14, -14$$
$$X \geq Y$$

