

Asked Quant Questions in SBI Clerk Pre 2018

Direction (1-5): Study the following pie chart carefully and answer the questions given beside.

The pie chart shows the percentage of students enrolled for SBI Clerk Pre 2018 from different states.



1. What is the central angle made by students of Goa and M. P?

A. 60°	B. 90°	C. 50°
D. 45°	E. None of these	

2. In Tamilnadu if 5/18 enrolled students failed then calculate the number of students who passed in Tamil Nadu?

A. 65800	B. 87600	C. 103000
D. 93600	E. None of these	

3. If 10% of the students enrolled from Bihar did not appear for the exam then number of students who appeared for the exam from Bihar is

A. 207360	B. 230710	C. 260711
D. 23760	E. None of these	

4. What is the difference between the Total number of students enrolled from Delhi and M. P. and the number of students enrolled from UP?

A. 28,800 D. 24,400 B. 18,800 E. None of these C. 14,400

5. What is the sum of the percentage of students who enrolled from U. P., M. P. and Goa?

A. 47%	B. 57%	C. 58%
D. 63%	E. None of these	

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Direction (6-15): Study the following questions carefully and choose the right answer.

6. A sum of Rs. 3,240 was fixed to complete a work. 54 workers completed the work in 8 days and the sum was divided equally among the workers. If the work was to be completed in 3 days then how much less money each worker would receive compared to when the work was completed in 8 days (sum is divided equally among the workers)?

A. Rs. 22. 5	B. Rs. 37. 5	C. Rs. 27. 5
D. Rs. 32. 5	E. None of these	

7. If an article was sold at 18% profit on cost price then the selling price of the article was Rs. 9381. What would have been the selling price of the article if it was sold at 25% profit?

A. Rs. 9937. 5	B. Rs. 9984. 5	C. Rs. 9927. 5
D. Rs. 9947. 5	E. None of these	

8. In a mixture of milk and water, the concentration of milk becomes 40% if one litre of water is added in that mixture. After adding another one litre water, the concentration of milk becomes 33. 33%. find the concentration of milk in the original mixture?

A. 50%B. 60%C. 75%D. 45%E. None of these

9. If the difference between the compound interest and simple interest on a sum of money for 2 years at 4% per annum is Rs. 39. 68 then find the sum of simple interest and compound interest for two years on the same sum of money and at the same rate of the interest?

A. Rs. 4006. 68	B. Rs. 4007. 68	C. Rs. 4005. 68
D. Rs. 4009. 68	E. None of these	

10. Ratio of speed of boat in still water to speed of stream 8 : 1. 67. 5 km is travelled downstream in 2. 5 hours. Difference between speed of boat in still water and speed of stream?

The Question Bank

A. 10 km/hr	B. 13 km/hr	C. 21 km/hr
D. 18 km/hr	E. None of these	

11. Each of the questions below consists of a question. You have to decide whether the data provided in the statements are sufficient to answer the question.

What is the age of teacher?

I. In a class of 20 students the average age of students is 21 and it increases to x if the age of teacher is included.

II. In a class of 10 students the average age of students and teacher is 22 years

- A. Only I is sufficient
- B. Only II is sufficient
- C. Either I or II is sufficient
- D. Neither I nor II is sufficient

E. Both I and II are sufficient

12. In each of the following problems, there is one question and three statements I, II and III given below the question. You have to decide whether the data given in the statements is sufficient to answer the question. Read all the statements carefully and find which of the statements is/are sufficient to answer the given question. Choose the correct alternative in each question.

What is the area of a right-angled triangle?

I. The base of the triangle is A cm.II. The height of the triangle is B cm.III. The hypotenuse of the triangle is C cm.

A. Only I & II are sufficient
B. Only II is sufficient
C. Only II & III are sufficient
D. Any two of the three is sufficient
E. None of the above is sufficient

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13. Directions: In each of the following questions, read the given statement and compare the Quantity I and Quantity II on its basis. (only quantity is to be considered)

Quantity I: The area of a rectangle and the ratio of the perimeter is 35: 8. What is the length of the rectangle if the breadth of the rectangle is 15 cm?

Quantity II : $\sqrt{625} - 1$

A. Quantity : I > Quantity : II B. Quantity : I ≥ Quantity : II

C. Quantity : I < Quantity : II

D. Quantity : $II \ge Quantity : I$

E. Quantity I = Quantity II or relation can't be established

Directions (14-15): In each of the following questions, read the given statement and compare the Quantity I and Quantity II on its basis. (only quantity is to be considered)

14. Quantity I: In an election, there were total 10000 votes. 75% were valid votes & winner candidate won by 2250 votes. How many votes did the winner get?

Quantity II: 4900

- A. Quantity : I > Quantity : II
- B. Quantity : $I \ge Quantity : II$
- C. Quantity : I < Quantity : II
- D. Quantity : $II \ge Quantity : I$
- E. Quantity I = Quantity II or relation can't be established

15. Quantity I: The average age of A, B, and C is 22 years. 3 years ago the average age of B, and C was 18 years. Find the age of A, 9 years hence

Quantity II: 32

The Question Bank

- A. Quantity : I > Quantity : II
- B. Quantity : $I \ge Quantity : II$
- C. Quantity : I < Quantity : II
- D. Quantity : $II \ge Quantity : I$
- E. Quantity I = Quantity II or relation can't be established

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16). 36 18 6 3 1 ? C. 0. 33 A. 1 B. O. 5 D. 0. 25 E. None of these 17). 18 8 6 9 32 ? A. 244 B. 87 C. 232 D. 251 E. None of these 18). 250, ?, 190, 167, 148, 131 A. 219 B. 223 C. 217 D. 211 E. None of these 19). 181, 244, 163, 190, ? ne Question Bank A. 178 B. 185 C. 184 D. 182 E. None of these 20). 18, 29, 42, 53, ?, 77 A. 64 B. 65 C. 66 D. 67 E. None of these

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Direction (Q. 16 - 20): Study the following questions carefully and choose the right answer.

Directions (Q. 21 to 25): In each of these question, two equations (I) and (II) are given. You have to solve both the equations and give answer.

- 21. I. $3x^2 + 8x + 4 = 0$ II. $6y^2 + 7y + 2 = 0$
 - A. x > yB. x < yC. $x \le y$ D. $x \ge y$ E. x = y or relationship between x and y can't be established
- 22. I. $x^2 4x 12 = 0$ II. $y^2 - 5y - 14 = 0$ A. x > yB. x < yC. $x \le y$ D. $x \ge y$ E. x = y or relationship between x and y can't be established
- 23. I. $6x^2 11x + 4 = 0$ II. $50y^2 - 25y + 3 = 0$
 - A. x > yB. x < yC. $x \le y$ D. $x \ge y$ E. x = y or relationship between x and y can't be established
- 24. I. $x^2 5x + 6 = 0$ I. $y^2 - 9y + 20 = 0$ A. x > yB. x < yC. $x \le y$ D. $x \ge y$ E. x = y or relationship between x and y can't be established

(I). 39x² - 31x - 28 = 0
(II). y² - 25y + 114 = 0
A. x > y
B. x < y
C. x ≤ y
D. x ≥ y
E. X = y or relationship between x and y can't be established

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Directions (26-35): What value should come in place of question mark?

26.	$\frac{?}{529} = \frac{324}{?}$ A. 404 E. None of these	D. 424 C. 414 Ouestion E	eda B. 408
27.	$\frac{2}{3} \div \frac{1}{3} of \frac{1}{2} \div \frac{1}{6} = ?$		
	A. 15 D. 25	B. 24 E. None of these	C. 34
28.	125 × 625 ÷ 25 = (5) ^{13 - ?}		
	A. 6 D. 14	B. 8 E. None of these	C. 5
29.	216 × 36 ÷ 1296 = (6) ^{?-3}		
	A. 1 D. 5	B. 3 E. None of these	C. 4

25.

30.	$7^3 + 8^2 = 5^2 + x\%$ o	f 400	
	A. 97 D. 95. 5	B. 97. 5 E. None of these	C. 98
31.	145673.234 + 254	32.236 – ? = 171055.47	
	A. 12345. 34 D. 500	B. 2345. 45 E. None of these	C. 1555
32.	$6\frac{3}{4} \times 13\frac{1}{3} + 2^2 \times 13\frac{1}{3}$	2 = 30% of 520	
	A. 13 D. 12. 5	B. 13. 5 E. None of these	C. 12
33.	$\sqrt{11^2 + 3^4 \times 7 - 2}$	13 ² +10 =? artk	eeda
	A. 25 D. 21	B. 23 E. None of these	Bank
34.	$\frac{6}{14} + \frac{73}{18} \div \frac{7}{9} = ?$		
	A. 5 D. 10	B. 4 E. None of these	C. 10
35.	$(0.3)^2 \times 5000 \div 20$	00 of $(0.5)^3 = ?$	
	A. 18 D. 2. 1	B. 21 C. 1. 8 E. None of these	
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Correct answers:

1	В	6	В	11	D	16	В	21	С	26	С	31	Е
2	D	7	А	12	D	17	D	22	Е	27	В	32	Е
3	А	8	А	13	С	18	А	23	А	28	В	33	В
4	С	9	В	14	С	19	С	24	В	29	С	34	А
5	В	10	С	15	А	20	С	25	В	30	D	35	С



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Explanations:

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1.

We know that

⇒ 100% = 360°

∴ 1% = 3.6°

Now, Total percentage of students from Goa and M. P. = (12% + 13%) = 25% Thus,

the central angle made by these students = $25\% \times 3.6^\circ = 90^\circ$

Hence, the correct answer is option B.

2.

Percentage of student enrolled from Tamilnadu = 9%

If failed students are 5/18, then passed students will be

 $1 - \frac{5}{18} = \frac{13}{18}$

Total number of passed students in Tamilnadu

$$= \frac{13}{18} \text{ of } 9\% \text{ of } 1440000$$

= 13 × 7200 = 93600

Hence, the correct answer is option D.

3.

Total number of students enrolled = 14,40,000

Percentage of students enrolled from Bihar = 16%

⇒ Number of students enrolled from Bihar

$$= \frac{16}{100} \times 1440000 = 2,30,400$$

We know that 10% of the students enrolled from Bihar did not appeared for the exam.

So, the number of students appeared for exam from Bihar = 90% of the number of students enrolled Bihar.

⇒ Number of students appeared for exam from Bihar

$$= \frac{90}{100} \times 2,30,400 = 2,07,360$$

Hence, option A is correct.

4.

Total percentage of students enrolled from Delhi and M. P. = 18% + 13% = 31% Total number of students enrolled from Delhi and M. P. = 31% of 14,40,000 Percentage of students enrolled from U. P. = 32% Number of students enrolled from U. P. = 32% of 14,40,000 Required difference = 32% of 14,40,000 – 31% of 14,40,000 = 1% of 14,40,000 = 14,400

Hence, option C is correct.

5.

Percentage of students enrolled from U. P. = 32%

Percentage of students enrolled from M. P. = 13%

Percentage of students enrolled from Goa = 12%

Required Sum = (32% + 13% + 12%) = 57% Hence,

option B is correct.

Total number of workers need to complete the work in 3 days = M1D1 = M2D2

Let the number of workers = x

then $54 \times 8 = X \times 3$, $x = 18 \times 8 = 144$

Each worker will receive =

$$\frac{3240}{144}$$
 = 22.5

In the first case when the work was completed in 8 days each worker received

$$= \frac{3240}{54} = 60$$

Required difference = Rs.

correct.



7.

Let the CP of the article = x

Then 18% profit on x = (100 + 18)% of x = 9381

$$X = \frac{9381 \times 100}{118} =$$

79. 5 × 100 = 7950 = cp

When article was sold at 25% profit then CP = 125% of 7950 = 9937.5

Hence, option A is correct.

Let the quantity of milk in the original mixture = x

litres And the quantity of water = y litres

The total quantity of mixture = x + y litres

When 1 litre of water is added then the total quantity of the mixture = x + y + 1 litres

According to the question, x = quantity of milk = 40% of (x + y + 1)

3x = 2y + 2(i)

After adding another 1 litre of water, the quantity of mixture = x + y + 1 + 1 = x + y + 2 litres

Now, according to the question, x = quantity of milk will become = 33. 33% of (x + y +

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2) 3x = x + y + 2

2x = y + 2(ii)

Bu solving equation (i) and equation The Question Bank

(ii) X = 2 and y = 2

The concentration of the milk in the mixture

$$= \frac{2 \times 100}{4} = 50\%$$

Hence, option A is correct.

9.

Let the principal = x

$$SI = x \times 2 \times \frac{4}{100}$$

$$CI = x \left(1 + \frac{4}{100}\right)^2 - x$$
$$CI - SI = \left[x \left(1 + \frac{4}{100}\right)^2 - x\right] - x \times 2 \times \frac{4}{100}$$

By solving, x = 24800

$$\left[24800 \left(1 + \frac{4}{100}\right)^2 - 24800\right] - 24800 \times 2 \times \frac{4}{100}$$

By solving, CI + SI = 4007. 68 Hence, option B is correct.

10.

Downstream speed of boat

=
$$\frac{67.5}{2.5}$$
 km/hr = 27 km/hr Smartkeeda

Ratio of speed of boat in still water to speed of stream = 8 : 1

1 unit = 3 km/hr

: Difference between speed of boat in still water and speed of stream = (8 - 1) = 7 units

= 7 × 3 = 21 km/hr.

Hence, option C is correct.

11.

We cannot find the age of teacher with the given data.

Hence, option D is correct.

We know that the area of right – angled triangle = $\frac{1}{2} \times \text{base} \times \text{height}$

And Hypontenuse = $\sqrt{base^2 + height^2}$

Combining any two of three given statements we can find the area of triangle.

Hence, option D is correct.

13.

Quantity I:

$\frac{\text{Area of rectangle}}{\text{Perimeter of rectangle}} = \frac{1 \times b}{2 (1 + b)} = \frac{35}{8}$
8 × I × b = 70 (I + b) Smartkeeda
Now b = 15 cm [Given] The Question Bank
∴ 8 × l × 15 = 70 (l + 15)
Solving we
get I = 21
cm
Quantity II: $\sqrt{625} - 1 = 25 - 1 = 24$
Thus, 24 is greater than 21.
Hence, Quantity I < Quantity
II. Hence, option C is correct.

12.

Quantity I :

Total votes = 10000

Valid votes = 75% of 10000 =

7500 Let winner get 'x' votes

 \therefore Runner up get (7500 – x)

votes x - (7500 - x) = 2250

2x = 2250 + 7500

 $\therefore x = \frac{9750}{2} = 4875$ votes

Quantity II: 4900

Thus, 4900 > 4875

Hence, Quantity I < Quantity

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The Question Bank

II. Hence, option C is correct.

15.

Quantity I :

Sum of Ages of A,B,C = $22 \times 3 = 66$ years

Average age of B & C 3 years ago = 18

years

∴ Present average age of B & C = 21 years

 \therefore Sum of ages of B & C = 21 × 2 = 42 years

 \therefore Present age of A = 66 – 42 = 24 years

 \therefore Age of A, 9 years hence = 24 + 9 = 33 years

Quantity II: 32

Therefore, 33 > 32

Hence, Quantity I > Quantity

II. Hence, option A is correct.

16.



Hence, option B is correct.

17.

Series Pattern	Given Series
18	18
18 × 0. 5 – 1	8
8×1-2	6
6 × 2 – 3	9
9×4–4	32
32 × 8 – 5	251 🗸

Hence, option D is correct.

Series Pattern Given Series

250	250	
250 - 31	219	1
219 – 29	190	
190 – 23	167	
167 – 19	148	
148 – 17	131	

Hence, option A is correct.

19.



20.

Series Pattern Given Series

18	18	
18 + 11	29	
29 + 13	42	
42 + 11	53	
53 + 13	66	1
66 + 11	77	

Hence, option C is correct.

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I. $3x^{2} + 8x + 4 = 0$ or, $3x^{2} + 6x + 2x + 4 = 0$ or, 3x (x + 2) + 2 (x + 2) = 0or, (3x + 2) (x + 2) = 0or, $x = -\frac{2}{3}, -2$ II. $6y^{2} + 7y + 2 = 0$ or, $6y^{2} + 3y + 4y + 2 = 0$ or, 3y(2y + 1) + 2 (2y + 1) = 0or, (3y + 2) (2y + 1) = 0or, $y = -\frac{2}{3}, -\frac{1}{3}$

While comparing the root values of x and y, we find that one root value of x is equal and another is less than the root values of y. Hence, the relationship between x and y is $x \le y$.

Thus, option C is correct.

22.

I. $x^2 - 4x - 12 = 0$ or, $x^2 - 6x + 2x - 12 = 0$ or, x (x - 6) + 2 (x - 6) = 0or, (x + 2) (x - 6) = 0or, x = -2, 6 II. $y^2 - 5y - 14 = 0$ or, $y^2 - 7y + 2y - 14 = 0$ or, y(y - 7) + 2 (y - 7) = 0or, (y + 2) (y - 7) = 0or, y = -2, 7 While comparing the root values of x and y, we find that one root value of x is lies between the values of y. Hence, the relationship between x and y can't be established.

Thus, option E is correct.

23.

 $1.6x^2 - 11x + 4 = 0$

or, $6x^2 - 3x - 8x + 4 = 0$

or, 3x(2x-1) - 4(2x-1) = 0

or,
$$(3x - 4)(2x - 1) = 0$$

or, x = 4/3, 1/2

II. $50y^2 - 25y + 3 = 0$

or,
$$50y^2 - 10y - 15y + 3 = 0$$
 or, $10y (5y - 1) - 3 (5y - 1) = 0$
or, $(10y - 3) (5y - 1) = 0$

While comparing the root values of x and y, we find that both the root values of x are greater than the values of y. Hence, the relationship between x and y is x > y.

The Question Bank

Thus, option A is correct.

24.

I.
$$x^{2} - 5x + 6 = 0$$

or, $x^{2} - 2x - 3x + 6 = 0$
or, $x(x - 2) - 3(x - 2)$
= 0
or, $(x - 3)(x - 2) = 0$
or, $x = 3, 2$

II.
$$y^2 - 9y + 20 = 0$$

or, $y^2 - 5y - 4y + 20 = 0$ or, $y(y - 5) - 4(y - 5) = 0$
or, $(y - 5)(y - 4) = 0$
or, $y = 4, 5$

While comparing the root values of x and y, we find that both the root values of y greater than the values of x. Hence, the relationship between x and y is x < y.

Thus, option B is correct.

25.

(I). $39x^2 - 31x - 28 = 0$ Or, $39x^2 - 52x + 21x - 28$ = 0 (13x + 7)(3x - 4) = 0 $x = -\frac{7}{13}\frac{4}{3}$ (II). $y^2 - 25y + 114 = 0$ Or, $y^2 - 19y - 6y + 114$ = 0 y(y - 19) - 6(y + 19) = 0 (y - 19)(y - 6) = 0 y = 19, 6x < y Hence, option B is correct.

26.

 $\frac{(?)}{529} = \frac{324}{?}$

 $? = \sqrt{529 \times 324}$

? = 23 × 18

? = 414

Hence, option C is correct.

27.

<u>2</u> 3	$\frac{1}{3}$ of $\frac{1}{2} \div \frac{1}{6} = ?$	martkeeda
⇒	$\frac{2}{3} \div \frac{1}{3} \text{ of } \frac{1}{2} \div \frac{1}{6} = ?$	The Question Bank
⇒	$\frac{2}{3} \div \frac{1}{6} \div \frac{1}{6} = ?$	
⇒	$\frac{2}{3} \times 6 \times 6 = ?$	

⇒?=24

Hence, option B is correct.

28.

 $125 × 625 ÷ 25 = (5)^{(13 - ?)}$ ⇒ (5)³ × 5² = (5)^(13 - ?) ⇒ ? = 13 - 5

Hence, option B is correct.

29.

 $216 \times 36 \div 1296 = (6)^{?-3}$

 \Rightarrow 216 × 36 ÷ 1296 = (6)^{?-3}

$$\Rightarrow 6^3 \times 6^2 \div 6^4 = (6)^{?-3}$$

Taking the power, we get

$$\Rightarrow$$
 3 + 2 - 4 = ? - 3

 $\Rightarrow 3 + 2 - 4 + 3 = ?$

⇒?=4

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30.

 $7^3 + 8^2 = 5^2 + ?\%$ of 400

Hence, option C is correct.

 $\Rightarrow 343 + 64 = 25 + 4x$

⇒ 382 = 4x

⇒ x = 382/4

⇒ x = 95. 5

Hence, option D is correct.

31.

145673. 234 + 25432. 236 - ? = 171055. 47

145673. 234 + 25432. 236 - 171055. 47 = 50

Hence, option E is correct.

32.

$$6\frac{3}{4} \times 13\frac{1}{3} + 2^2 \times ? = 30\% \text{ of } 520$$

 $\frac{27}{4} \times \frac{40}{3} + 4 \times ? = 156$

4 × ? = 156 – 90

4 × ? = 66

? = 16. 5

Hence, option E is correct.



$$? = \sqrt{529} = 23$$

Hence, option B is correct.

34.

 $\frac{6}{14} + \frac{73}{18} \div \frac{7}{9} = ?$ $\frac{6}{14} + \frac{73}{18} \times \frac{9}{7} = ?$ $\frac{6}{14} + \frac{73}{14} = \frac{79}{14} = 5\frac{9}{14}$ Hence, option A is correct.

 $(0.3)^2 \times 5000 \div 2000 \text{ of } (0.5)^3 =?$

 $? = (0.3)^2 \times 5000 \div [2000 \times 0.5 \times 0.5 \times 0.5]$

? = 0.09 × 5000 ÷ 250

? = 1.8

Hence, option C is correct.



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