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SBI Clerk Quant Previous Years' Questions (2015 - 2016)

(Qs 1-5) Directions: What approximate value should come in place of question mark (?) in the following questions (you are not expected to calculate the exact value).

1. $(28/9) \times (264/12) \div (17/5) + (13/17) = ?$

- A. 16
B. 19
C. 12
D. 25
E. None of these

2. $359.99\% \text{ of } 899.97 + 164.95\% \text{ of } 8984.01 - 1186.002 = ?$

- A. 19469
B. 15896
C. 17956
D. 16878
E. 21659

3. $754 \ 4136 \ 24 \ ? \div \times =$

- A. 294
B. 276
C. 265
D. 300
E. 288

4. $564.666 + 82.5091 \times 44.581 - 34.111 = ?$

- A. 28450
B. 4000
C. 1600
D. 14225
E. 4210

5. $2 \ 3 \ 9 \text{ of } 298.87 = ? \% \text{ of } 6788.89 - 2135.91$

- A. 46
B. 90
C. 26
D. 56
E. 11.35





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6. Wine 'W' is produced by mixing alcohol X and alcohol Y in the ratio of 4: 5. Alcohol X is prepared by mixing two raw materials, A and B, in the ratio of 1: 2. Alcohol Y is prepared by mixing two raw materials, B and C, in the ratio of 3: 1. Then the final mixture is prepared by mixing 864 liters of wine 'W' with water. If the concentration of the raw material B in the final mixture is 50%, how much water had been added to wine 'W'?

- A. 328 units
B. 368 units
C. 392 units
D. 616 units
E. None of the above

7. A trader bought two mobiles for Rs. 39,000. He sold one at a loss of 20% and the other at a profit of 15%. If the selling price of each mobile is the same, then their cost prices are respectively.

- A. Rs. 20,000 and Rs. 19,000
B. Rs. 23,000 and Rs. 16,000
C. Rs. 20,500 and Rs. 19,500
D. Rs. 30,000 and Rs. 9,000
E. Rs. 30,000 and Rs. 9,500

8. One train runs from station A to B and the other from station B to A. They both start simultaneously and meet cross each other at a particular point on the route. Their speeds are in the ratio 4:3. After crossing each other the train from A to B takes 5 hours to complete the leftover 200km of journey. The speed of train from B to A after crossing reduced by 5 km/h and it covered the leftover distance in 12 hours.

What is the total distance between A and B?

- A. 1000km
B. 500km
C. 800km
D. 600km
E. 900km

9. The income of A is 150% of the income of B and the income of C is 120% of the income of A. If the total income of A, B and C together is ₹86,000, what is C's income?

- A. ₹ 30000
B. ₹ 32000



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C. ₹ 20000

D. ₹ 36000

E. None of these

10. A can do a piece of work in 8 days which B can destroy in 3 days. A has worked for 6 days, during the last 2 days of which B has been destroying. How many days must A now work alone to complete the work?

A. 7 days

B. $7\frac{1}{3}$ days

C. $7\frac{2}{3}$ days

D. 8 days

E. None of these

11. A hemispherical vessel of internal diameter 162 cm contains milk. The milk is to be filled in cylindrical flasks of radius 9 cm and height 27 cm. How many flasks are required to empty the vessel?

A. 81

B. 243

C. 54

D. 192

E. 162

12. A company produces an average of 4000 items per month for the first 3 months. How much items, it must produce on an average per month over the next 9 months to average 4375 items per month over the whole year?

A. 4500

B. 4600

C. 4680

D. 4710

E. None of these

13. Atul took a credit at simple interest rate of 6% in the 1st year but with an increase of 0.5% in each subsequent year. He paid interest of INR 4375 after 5 years. How much credit did he take?

A. INR 33250

B. INR 12500

C. INR 15800

D. Cannot be determined

E. None of the above



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19. I. $2x^2 + 19x + 42 = 0$

II. $4y^2 + 43y + 30 = 0$

A. $x > y$

B. $x < y$

C. $x \geq y$

D. $x \leq y$

E. $x = y$ or no relation can be established between 'x' and 'y'.

20. I. $72 - 30x = -2x^2$

II. $y^2 - 40/6 = 7/3$

A. $x > y$

B. $x < y$

C. $x \geq y$

D. $x \leq y$

E. $x = y$ or no relation can be established between 'x' and 'y'.

21. I. $x^2 = 529$

II. $y = 529$

A. $x > y$

B. $x \geq y$

C. $x \geq y$

D. $x \leq y$

E. $x = y$ or relation can't be established.

22. I. $x^2 + 13x = -42$

II. $y^2 + 16y + 63 = 0$

A. $x > y$

B. $x \geq y$

C. $x \geq y$

D. $x \leq y$

E. $x = y$ or relation can't be established.

23. I. $2x + 3y = 14$

II. $4x + 2y = 16$

A. $x > y$

B. $x \geq y$

C. $x \geq y$

D. $x \leq y$

E. $x = y$ or relation can't be established.

(Qs 24-27) Directions: What approximate value will come in place of the question mark (?) in the following questions?



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24. $\sqrt{898} \times (12.005)^2 + ? = 5000$

- A. 680
B. 720
C. 750
D. 620
E. 630

25. $47.03 * 26.96 + 14.98 * (42870)^{1/3} = ?$

- A. 1795
B. 1820
C. 1750
D. 1940
E. 1860

26. $(47\% \text{ of } 1442 - 36\% \text{ of } 1412) \div 63 = ?$

- A. 4
B. 5
C. 3
D. 6
E. 1

27. $2418.065 + 88 \div 14.2 \times 6 = ?$

- A. 1059
B. 2419
C. 2496
D. 2455
E. 1985

28. Simplify: $(\sqrt{119} + 49.06 \div 6.998) * 124.9 \div 5.13$

- A. 250
B. 350
C. 450
D. 550
E. 650

29. What should come in the place of the question mark in the following series?

3, 4, 12, 45, 196, ?

- A. 1000
B. 1005
C. 1025
D. 1015
E. None of these

30. What should come in place of question mark (?) in the following number of series? 26, 38, ?, 68, 86



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Year	School							
	A		B		C		D	
	Appeared	Passed	Appeared	Passed	Appeared	Passed	Appeared	Passed
2004	124	78	445	354	454	343	546	345
2005	234	124	545	435	732	567	565	456
2006	456	235	664	454	693	456	235	112
2007	398	156	345	144	645	545	546	234
2008	546	346	584	354	354	258	656	564
2009	547	435	704	347	578	313	456	252

35. What was the total number of failed candidates from school-C in the year 2008 and the number of candidates who appeared in the exam from school-D in the year 2006?

- A. 335
B. 325
C. 322
D. 332
E. None of these

36. In which year was the difference between the number of candidates who appeared and passed in the exam from school-B second lowest?

- A. 2004
B. 2005
C. 2006
D. 2007
E. 2008

37. What was the respective ratio between the number of candidates who appeared from school-C in the year 2006 and the number of candidate who passed in the exam from school-D in the year 2009?

- A. 11 : 4
B. 11 : 5
C. 5 : 11
D. 9 : 11
E. None of these

38. Number of candidates who passed in the exam from school B in the year 2005 was approximately what percent of number of candidates who appeared from school-A in the year 2008?



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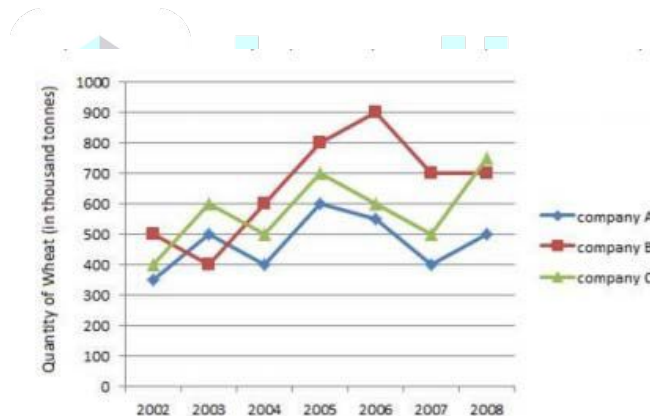


- A. 76
- B. 87
- C. 90
- D. 84
- E. 80

39. What was the approximate percent increase in the number of candidates who passed in the exam from school-A in the year 2009 as compared to the previous year?

- A. 22
- B. 39
- C. 26
- D. 30
- E. 34

(Qs 40 – 44) Direction: Study the following graph carefully to answer these questions. Quantity of Wheat (in thousand tonnes) Exported by three companies over the year



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40. What is the percent increase in export of company C from 2004 to 2008?

- A. 50
- B. 33.33
- C. 150
- D. 133.33
- E. 123.33

41. Total export of company A for all the year is approximately what percent of the total export of company B for all the year?

- A. 75
- B. 128



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C. 139

D. 68

E. 72

42. Percent rise in exports from the previous years was the maximum during which year of the company B?

A. 2005

B. 2004

C. 2006

D. 2008

E. None of these

43. What is the average export of the company B for all the year?

A. 766.67

B. 667.14

C. 657.14

D. 756.57

E. 576.41

44. What is the ratio between total export of the three companies in 2003 and 2006 respectively?

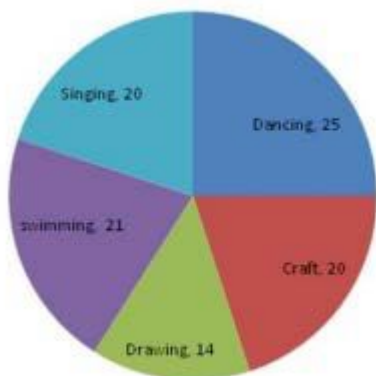
A. 41:29

B. 51:29

C. 29:59

D. 29:41 E. None of these

(Qs 45 – 49) Direction: Study the pie-chart carefully to answer the following questions Percentage of students enrolled in different activities in a school (Total student = 4000).



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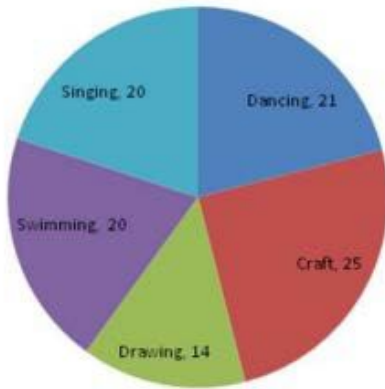
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Percentage break up of girls enrolled in these activities out of the total students.

(total number of girls = 2500)



45. What is the approximate percentage of boys in the school?

- A. 52%
- B. 56%
- C. 35%
- D. 40%
- E. 38%

46. How many boys are enrolled in Singing and Craft together?

- A. 475
- B. 520
- C. 640
- D. 810
- E. None of these

47. What is the total number of girls enrolled in Swimming and Drawing together?

- A. 800
- B. 850
- C. 840
- D. 920
- E. None of these

48. Number of girls enrolled in Dancing is what per cent of total number of students in the school (rounded off to two digits after decimal).

- A. 16.25%
- B. 14.25%
- C. 13.12%
- D. 9.65%





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E. None of these

49. What is the respective ratio of number of girls enrolled in Swimming to the number of boys enrolled in Swimming?

A. 3:4

B. 7:9

C. 17:25

D. 25:17

E. None of these

(Qs 50 – 54) Directions: Study the following graph carefully to answer the questions that follow



50. What is the respective ratio of the amount of profit earned by company A and B together in 2011?

A. 2 : 9

B. 7 : 4

C. 15 : 13

D. Cannot determine

E. None of these

51. If the amount of profit earned by company A in the year 2013 was Rs 2.5 lakh. What was its expenditure in that year?



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- A. 6.75 lakh
B. 5.75 lakh
C. 6.25 lakh
D. Cannot determine
E. None of these

52. What is the average percent profit earned by company B over all the years together in (approx)?

- A. 37
B. 39
C. 42
D. Cannot determined
E. None of these

53. If in the year 2010 the expenditure incurred by company A and B was the same what was the respective ratio of the income of company A and B in that year?

- A. 28 : 27
B. 27 : 28
C. 19 : 13
D. 23 : 14
E. None of these

54. In the year 2014 the income of both the companies A and B was the same what was the respective ratio of expenditure of company A to the expenditure of company B in that year?

- A. 15 : 13
B. 25 : 21
C. 21 : 25
D. 13 : 15
E. None of these

(Qs 55 – 59) Directions: Study the following questions and choose the correct answer. State wise production of different crops for the year 2014-2015 (in million tonnes)





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State	Rice	Wheat	Pulses	Total weight of crops
Uttar Pradesh.	17.18	—	12.76	45.91
West Bengal.	—	6.81	5.35	30.35
Madhya Pradesh	13.67	13.72	—	31.71
Bihar	—	12.86	3.11	27.91
Punjab	12.36	—	2.36	29.14
All India	68.64	54.23	—	138.07

55. W.B. produces wheat approximately what percent of the total wheat produced in India?

- A. 12.5 %
- B. 13.5 %
- C. 18%
- D. 15%
- E. None of These

56. The amount of rice produced by U.P. is more than the amount of pulses produced by the other four states listed in the table, by

- A. 2.97 m tones
- B. 3.16 m tones
- C. 2.04 m tones
- D. 4.89 m tonnes
- E. None of These

57. What is difference of the total wheat production was produced by states other than those given in the table?

- A. 6.55 million tonnes
- B. 8.55 million tonnes
- C. 19.55 million tonnes
- D. 9.55 million tonnes
- E. None of These

58. Bihar produced approximately what per cent of the all India production of all the three crops taken together?

- A. 20.21%
- B. 26.2%
- C. 22.18%
- D. 22.52%
- E. None of These



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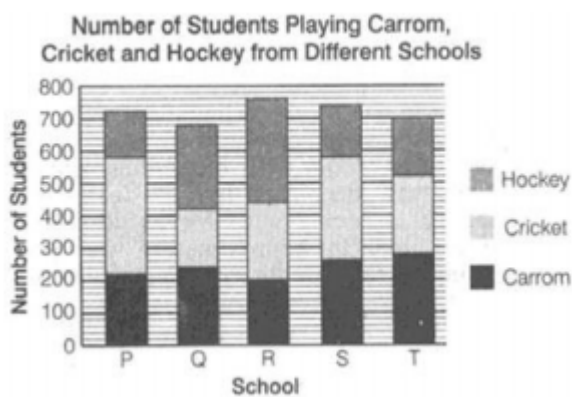
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59. What is total wheat production was produced by three states Punjab, Bihar and West Bengal together?

- A. 34 million tonnes
- B. 36 million tonnes
- C. 24 million tonnes
- D. 38 million tonnes
- E. None of These

(Qs 60 – 64) Direction: Study the following graph carefully to answer the questions.



60. Total number of students playing Carrom and Hockey together from school P is what per cent of the total number of students playing these two games together from school R?

- A. 3 68 16
- B. 3 62 13
- C. 3 69 13
- D. 3 63 13
- E. 3 66 13

61. If the number of students playing each game in school S is increased by 15% and the number of students playing each game in school Q is decreased by 5%, then what will be the difference between number of students in schools S and Q?

- A. 54
- B. 218
- C. 356
- D. 224



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E. 205

62. If out of the students playing Cricket from schools Q, S and T 40%, 35% and 45% respectively got selected for state level competition, what was the total number of students got selected for State level competition from these three schools together?

A. 346

B. 241

C. 292

D. 284

E. 268

63. Total number of students playing Hockey from all schools together is approximately what per cent of the total number of students playing Cricket from all schools together?

A. 84

B. 74

C. 72

D. 79

E. 70

64. From school P, out of the students playing Carrom, 40% got selected for State level competition. out of which 25% further got selected for National level competition. From school T, out of the students playing Carrom, 45% got selected for State level competition, out of which two-third further got selected for National level competition. What is the total number of students playing carrom from these two schools who got selected for National level competition?

A. 106

B. 98

C. 112

D. 108

E. 96

65. The cost price of item B is Rs. 150/- more than the cost price of item A. Item A was sold at a profit of 10% and item B was sold at a loss of 20%. If the respective ratio of selling prices of items A and B is 11 : 12, what is the cost price of item B?

A. Rs. 450/-

B. Rs. 420/-



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C. Rs. 400/-

D. Rs. 350/-

E. Rs. 480/-

66. A vessel contains a mixture of milk and water in the respective ratio of 10 : 3. Twenty-six litre of this mixture was taken out and replaced with 8 litre of water. If the resultant respective ratio of milk and water in the mixture was 5 : 2, what was the initial quantity of mixture in the vessel ? (in litre)

A. 143

B. 182

C. 169

D. 156

E. 130

67. Number of students enrolled in institute A in 2011 is what percent of that enrolled in institute B in the same year?

A. 50.75%

B. 60.25%

C. 58.5%

D. 54.75%

E. 56.25%

68. Number of students enrolled in institute B decreased by what percent from 2010 to 2013?

A. 41 $\frac{2}{3}$

B. 36 $\frac{2}{3}$

C. 43 $\frac{1}{3}$

D. 29 $\frac{1}{3}$

E. 35 $\frac{1}{3}$

69. A is thrice as efficient as B. A started working and after 4 days he was replaced by B. B then worked for 15 days and left. If A and B together finished 75% of the total work, in how many days B alone can finish the whole work?

A. 27

B. 45

C. 24

D. 36

E. 42

70. Raman invested P for 2 years in scheme A which offered 20% p.a. compound interest (compounded annually). He lent the interest earned from scheme A to



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75. What number should come in place of the question mark?

5 7 17 55 225 ?

A. 971

B. 1131

C. 1253

D. 1435

E. 956

76. What number should come in place of the question mark?

10 6 8 15 34 ?

A. 95

B. 90

C. 110

D. 75

E. 85

77. The respective ratio of radii of two right circular cylinders (A and B) is 3 : 2. The respective ratio of volumes of cylinders A and B is 9 : 7, then what are the heights of cylinders A and B ?

A. 8 : 5

B. 4 : 7

C. 7 : 6

D. 5 : 4

E. 6 : 5

78. Surf gave 25% of her monthly salary to her mother. From the remaining salary, she paid 15% towards rent and 25%, she kept aside for her monthly expenses. The remaining amount she kept in bank account. The sum of the amount she kept in bank and that she gave to her mother was Rs.42,000/-. What was her monthly salary?

A. Rs. 50,000/-

B. Rs. 60,000/-

C. Rs. 65,000/-

D. Rs. 64,000/-

E. Rs. 72,000/-

79. A started a business by investing Rs. 25,000/-. At the end of 4th month from the start of the business, B joined with Rs.15,000/- and at the end of 6th month from the start of the business, C joined with Rs.20,000/-. If A's share in profit at the end of year was Rs.27,750/-, what was the total profit received ?

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- A. Rs.13,950/- B. Rs.13,810/-
C. Rs.13,920/- D. Rs.12,780/-
E. Rs.14,040/-80.

80. What number should come in place of the question mark?

$$40.1\% \text{ of } 360.2 - 59.98\% \text{ of } ? = 12$$

- A. 220 B. 228
C. 300 D. 325
E. 200

81. What number should come in place of the question mark?

$$96.894 + 33.002 + 15.02 \times 7.99 = ?$$

- A. 180 B. 200
C. 250 D. 169
E. 170

82. What number should come in place of the question mark?

$$? \% \text{ of } 750.11 \times 34.90 + 6.995 = 3000$$

- A. 12 B. 15
C. 18 D. 75
E. 60

83. What number should come in place of the question mark?

$$815.002 + 29.98 - 53.998 + 3.01^2 = ?$$

- A. 820 B. 880
C. 840 D. 800
E. 750



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Given below are some of the memory-based questions of SBI Clerk

Prelims Exams 2015 & 2016:

1. What number should come in place of the question mark? 1440, ?, 48, 12, 4, 2

2. What number should come in place of the question mark?

22, 19.7, 24.3, 17.4, ?, 15.1

3. What number should come in place of the question mark?

5, 4, 7, 20, 79, ?

4. What number should come in place of the question mark?

32, ?, 52, 88, 152, 252

5. Find the wrong number in the following series:

8, 4, 4, 6, 12

6. What number should come in place of the question mark?

$x\%$ of 240 = 80% of 150 + 60 = ?

7. What number should come in place of the question mark?

60% of $(\frac{3}{28} \times \frac{7}{9}) = ?$

8. What number should come in place of the question mark?

$3\frac{1}{9} \times 4\frac{3}{7} = ?$

9. What number should come in place of the question mark?

85 53 33 22 17 ?

10. Choose the correct alternative from the given ones that will complete the series.

1, 3, 4, 8, 15, 27, ?



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11. Fill the number in a blank space.

+12, +22, +32...

12. Fill the number in a blank space.

×8, ×8, ×8 ...

13. Fill the number in a blank space.

×0.5+1, ×0.5+1..

14. What number should come in place of the question mark?

$(42.11 \times 5.006) - \sqrt{7} \times 15.08 = ?$

15. Vishal invested $(\frac{2}{11})^{\text{th}}$ part of his monthly income in stocks share and $(\frac{1}{4})^{\text{th}}$ part in mutual fund. He spent the remaining amount on domestic needs and apparel in the ratio 5:3 respectively. The expenditure on domestic needs was Rs.2100. What is his annual income?

16. Mother and son's ages are in the ratio 7:8. Father and son's ages are in ratio 8:5. Find ratio of ages of father and mother.

17. A is twice as efficient as B. B started the work and after 4 days A Joins B and the total work was completed in 9 days. In how many days B can complete the work alone?

18. In a mixture of milk and water 270 l, there is milk and water in ratio 7:5. How much water is added to get ratio 9:5 finally.

19. Two products are purchased at the same price. One is sold at a profit of 20% while another is sold at a loss that was equal to half of the profit from first product. Find final profit in the deal.

20. The ratio of the ages of X and Y is 3:7. The ratio of the ages of X and Z is 5:14. Find the ratio of the ages of Y and Z?



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21. In a class of 40 students, the number of girls is 16 more than that of boys. The average weight of the class is 47.7. If the average weight of the girls is 45, what is the average weight of the boys?
22. If the difference between 33.75 and three-fifth of a number is 45% of the same number, what is the number?
23. The difference between compound interest on a certain sum for 5th year at the rate of 30% and 3rd year at the rate of 20% is INR 450. Calculate the principal amount.
24. There is 2,250 litres 8:7 mixture of milk and water. How much Milk should be added in the $\frac{1}{3}$ rd of the mixture to make the milk and water ratio 8:5?
25. Gold is 19 times as heavy as water & copper is 9 times as heavy as water. In what ratio should these be mixed to get an alloy 15 times as heavy as water?
26. While covering a distance of 24 km, a man noticed that after walking for 1 hr & 40 min, the distance covered by him was $\frac{5}{7}$ of remaining distance. What was his speed in m/s ?
27. 3 containers have their volumes in ratio 3:4:5. They r full of milk & water. The mixture contains milk & water in ratio (4:1), (3:1) & (5:2). The contents of all these 3 containers r poured into 4th container. The ratio of milk & water in 4th container is?
28. A man purchased 2 articles at the same price. One he sold at 20%. Profit, while other sold at the loss of, half of the 1 Profit. Finally, what was the Profit percentage?
29. A car depreciates at a certain rate. The current value of the car is estimated to be Rs. 32.768. Also, the ratio of decrease in the value for 4th year and 5th year is 5 : 4. Find the value of the car 5 years ago.
30. The sum salary of A, B and C is 72000.They spend 80,85 and 75% of their salary. If the ratio of their savings is 8:9:20. what is the salary of A?

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31. A train crosses a platform in some “x” time. It crosses a pole in some “y” time. What is ratio of length of train to length of platform.
32. Ratio of speed of boat in still water to speed of boat downstream given. Distance covered given. Find ratio of speed of boat in still water to speed of boat upstream.
33. A is 30% more efficient than B. B works for 12 days, and the remaining work is completed by A alone in 30 days. In how many days will B, working alone, complete half the total work?
34. Two liquids A & B are there in a mixture in the ratio 3:2. 50 litres of the mixture is removed and 9 litres of A are added. The ratio of A & B in the mixture is now 2:1. Find original quantity of both A & B in the mixture.
35. A invests Rs. “X” in a partnership for 2 full years. In the middle of this, B puts Rs. “Y” into the partnership, sometime after A invests. Profits at the end of 2 years since A first invests are given as Rs. “P” and Rs. “Q” respectively. Find out duration for which B invested.
36. A girl inquires about rate of simple interest at a bank. After that, she deposited some principal amount for 2 years. She deposited an equal principal amount at the same rate for 7 years. The difference between the Simple Interests accrued on both the principals after their terms is Rs. “X”. What is the rate of interest?
37. The average weight of boys in a class is “X”. The average weight of girls in a class is “Y”. The average weight of the whole class is “Z”. There are “M” boys more than girls in the class. How many total students are there in the class?
38. Area of a square is twice the area of a rectangle. Find the ratio of their perimeters.



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39. At a certain rate r , a principal amount of Rs. 1200 for 4 years gives a simple interest Rs. "X". At a rate that is 5% more than r , for 6 years, what would be the compound interest accrued on the same principal amount?

40. "X" % of a constituency is male. "P" % of males voted, "Q" % of females voted. What percentage of total population voted.

41. The average weight of students in a class is "X". 6 students were replaced with 8 new students. What is the ratio of the average weight after 6 students were removed and after 8 new students were replaced.

42. The speeds of John and Max are 30 km/h and 40 km/h initially Max is at a place L and John is at a place M. The distance between L and M is 650 km. John started his journey 3 hours earlier than Max to meet each other. If they meet each other at a place P somewhere between L and M, then the distance between P and M is?

43. Train moving at 50km/hr to cross a platform takes 4 times more time for the same train crossing a pole at 90km/hr. Find the ratio of platform to length of train.

44. The speeds of John and Max are 30 km/h and 40 km/h. Initially Max is at a place L and John is at a place M. The distance between L and M is 650 km. John started his journey 3 hours earlier than Max to meet each other. If they meet each other at a place P somewhere between L and M, then the distance between P and M is?

45. Average of 32 students is given. 8 new students join due to which the average increases by 1.25 Kg. Calculate the average weight of the new joiners.





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Some of the memory-based questions with solution are given below:

1. What number should come in place of the question mark?

4, 3, 5, 14, 55, ?

Solution: $4 \times 1 - 1 = 3$

$3 \times 2 - 1 = 5$

$5 \times 3 - 1 = 14$

$14 \times 4 - 1 = 55$

$55 \times 5 - 1 = 274$

2. What number should come in place of the question mark?

16, 13.9, 18.1, 11.8, ?

Solution: $16 - 2.1 = 13.9$

$13.9 + 2.1 \times 2 = 18.1$

$18.1 - 2.1 \times 3 = 11.8$

$11.8 + 2.1 \times 4 = 20.2$

3. What number should come in place of the question mark?

2160, ?, 72, 18, 6, 3

Solution: $3 \times 2 = 6$

$6 \times 3 = 18$

$18 \times 4 = 72$

$72 \times 5 = 360$

$360 \times 6 = 2160$

4. What number should come in place of the question mark?

6, 3, 3, 4.5, 9, ?

Solution: $6 \times 0.5 = 3$

$3 \times 1 = 3$



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$$3 \times 1.5 = 4.5$$

$$4.5 \times 2 = 9$$

5. What number should come in place of the question mark?

24, ?, 44, 80, 144, 244

Solution: $24 + 2^2 = 28$

$$28 + 4^2 = 44$$

$$44 + 6^2 = 80$$

$$80 + 8^2 = 144$$

$$144 + 10^2 = 244$$

6. What number should come in place of the question mark?

5760, ?, 1440, 160, 10, 0.4

Solution: $5760/1^2 = 5760$

$$5760/2^2 = 1440$$

$$1440/3^2 = 160$$

$$160/4^2 = 10$$

7. What number should come in place of the question mark?

8, 5, 6, 10, 21, ?

Solution: $8 \times 0.5 + 1 = 5$

$$5 \times 1 + 1 = 6$$

$$6 \times 1.5 + 1 = 10$$

$$10 \times 2 + 1 = 21$$

8. What number should come in place of the question mark?

339, ?, 345, 353, 369

Solution: $339 + 2 = 341$

$$341 + 2^2 = 345$$

$$345 + 2^3 = 353$$

$$353 + 2^4 = 369$$

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9. What number should come in place of the question mark?

38, ?, 25.2, 18.8, 22

Solution: $38 - 25.6 = 12.4$

$12.4 + 25.6/2 = 25.2$

$25.2 - 25.6/4 = 18.8$

$18.8 + 25.6/8 = 22$

10. What number should come in place of the question mark?

0.5, 1, 5, 40, 440, ?

Solution: $0.5 \times 2 = 1$

$1 \times (2 + 3) = 5$

$5 \times (2 + 3 + 3) = 40$

$40 \times (2 + 3 + 3 + 3) = 440$

11. What number should come in place of the question mark?

5760, ?, 1440, 160, 10, 0.4

Solution: $5760/1^2 = 5760$

$5760/2^2 = 1440$

$1440/3^2 = 160$

$160/4^2 = 10$

12. What number should come in place of the question mark?

8, 5, 6, 10, 21, ?

Solution: $8 \times 0.5 + 1 = 5$

$5 \times 1 + 1 = 6$

$6 \times 1.5 + 1 = 10$

$10 \times 2 + 1 = 21$

13. What number should come in place of the question mark?

339, ?, 345, 353, 369

Solution: $339 + 2 = 341$

$341 + 2^2 = 345$



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$$345 + 2^3 = 353$$

$$353 + 2^4 = 369$$

14. What number should come in place of the question mark?

38, ?, 25.2, 18.8, 22

Solution: $38 - 25.6 = 12.4$

$$12.4 + 25.6/2 = 25.2$$

$$25.2 - 25.6/4 = 18.8$$

$$18.8 + 25.6/8 = 22$$

15. What number should come in place of the question mark?

0.5, 1, 5, 40, 440, ?

Solution: $0.5 \times 2 = 1$

$$1 \times (2 + 3) = 5$$

$$5 \times (2 + 3 + 3) = 40$$

$$40 \times (2 + 3 + 3 + 3) = 440$$

16. What number should come in place of the question mark?

.1, .2, 1, 8, 88, ?

Solution: $0.1 \times 2 = 0.2$

$$0.2 \times (2+3) = 1$$

$$1 \times (2+3+3) = 8$$

$$8 \times (2+3+3+3) = 88$$

$$88 \times (2+3+3+3+3) = 1252$$

17. What number should come in place of the question mark?

9 31.4 20.2 25.8 23 ?

Solution: $9 + 22.4 = 31.4$

$$31.4 - 22.4/2 = 20.2$$

$$20.2 + 22.4/4 = 25.8$$



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$$25.8 - 22.4/8 = 23$$

$$23 + 22.4/16 = 24.4$$

18. What number should come in place of the question mark?

10, 6, 7, 11.5, 24, ?

Solution: $10 \times 0.5 + 1 = 6$

$$6 \times 1 + 1 = 7$$

$$7 \times 1.5 + 1 = 11.5$$

$$11.5 \times 2 + 1 = 24$$

$$24 \times 2.5 + 1 = 61$$

19. What number should come in place of the question mark?

2880, ?, 720, 80, 5, 0.2

Solution: $2880/1^2 = 2880$

$$2880/2^2 = 720$$

$$720/3^2 = 80$$

$$80/4^2 = 5$$

$$5/5^2 = 0.2$$

20. What number should come in place of the question mark?

259, ?, 253, 245, 229, 197

Solution: $259 - 2 = 257$

$$257 - 2^2 = 253$$

$$253 - 2^3 = 245$$

$$245 - 2^4 = 229$$

$$229 - 2^5 = 197$$

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