

# IBPS Clerk 2022 Most Expected Quant Ques. (Download PDF)

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

1.  $(192 \% \text{ of } 175) - (306 \div 18) = ? - 17 \times 34 + 11^2$

- A. 780
- B. 776
- C. 784
- D. 788

**Direction:** What should come in place of the question mark '?' in the following questions?

2.  $4.2^2 + 8.6^2 - 6.2^2 = ?^2 + 4.16$

- A. 5
- B. 7
- C. 9
- D. 11

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

3.  $\sqrt{?} \% \text{ of } 160 = 64 \div 2$

- A. 40
- B. 400
- C. 20
- D.  $\sqrt{20}$

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

4.  $6235 + 433 - 68 = ? + 1347$

- A. 5352
- B. 5253
- C. 7947
- D. 7497

**Direction:** What should come in place of the question mark '?' in the following question?

5.  $(196 \div 8 + 15.5) \times 9 \div \sqrt{576} = ?$

- A. 17
- B. 11
- C. 13
- D. 15



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

6.  $18\% \text{ of } 1500 + \frac{16}{176} \text{ of } 22 = ?$

- A. 262
- B. 282
- C. 276
- D. 272

7. Kirti started from her home to station at 8.30 am with an average speed of 25 km/hr but reached the station 8 minutes after the train departed. If she had travelled with an average speed of 30 km/hr, she would have reached the station 4 minutes before the departure of the train. Find the time of the departure of the train.

- A. 9.30 am
- B. 9.34 am
- C. 9.38 am
- D. 9.42 am

8. The present ages of P and Q are in the ratio of 5 : 6 whereas the present ages of Q and R are in the ratio of 4 : 5. If after 6 years, the ratio of ages of Q and R becomes 5 : 6 then what is the present age of Q's father who is 22 years elder than Q?

- A. 44 years
- B. 46 years
- C. 48 years
- D. 50 years

9. A boat can cover 100 km upstream and 137.5 km downstream in 32.5 hours. Also, it can cover 75 km upstream and 110 km downstream in 25 hours. Find the speed of the boat in still water.

- A. 11 km/h
- B. 9 km/h
- C. 8 km/h
- D. 12 km/h

10. If two pipes can drain a tank in 30 hours and 60 hours respectively, what should be the filling capacity of a third pipe so that there is no net flow of water in tank?

- A. 30 hours
- B. 25 hours
- C. 20 hours
- D. 15 hours



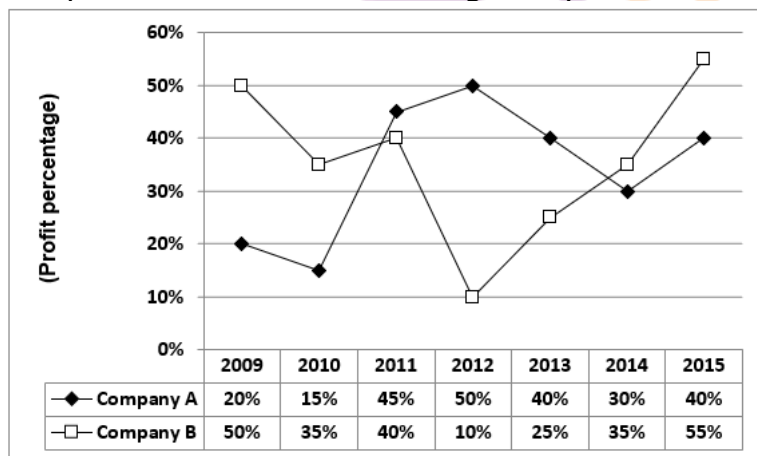
11. Tanmay, Kunal, and Rishi together started a business by investing combined capital of Rs. 184000. The initial capitals of Kunal and Rishi were Rs. 16000 and Rs. 40000, respectively less than the initial capital of Tanmay. If Kunal withdrew Rs. 10000 at the end of 3<sup>rd</sup> month and at the end of year his share of profit was Rs. 2260, what was the total profit?

- A. Rs. 7080
- B. Rs. 7160
- C. Rs. 7120
- D. Rs. 7060

12. A man uses 25% of his salary for his monthly expenditures, 12.5% on children's education and the rest Rs. 25000 is equally divided among savings, investments and miscellaneous expenditures. What is the difference between the amount of money used for monthly expenditures and savings and the amount of money used for education and investment?

- A. Rs. 5000
- B. Rs. 8333
- C. Rs. 2500
- D. Rs. 10000

**Direction:** Study the following graph carefully to answer the questions:  
The line-graph given below shows the percentage of profit earned by two companies A and B over the given years.



$$\text{Profit Percent} = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100\%$$

13. If every year, income of company A increases by 25% over the previous year and income in the year 2008 was Rs. 1104 lakh, then what was the total profit made by company A in the year 2009 and 2010 together?

- A. Rs. 375 lakh



- B. Rs. 508 lakh
- C. Rs. 455 lakh
- D. Can't be determined

14.If the expenditure of company B in the year 2014 was Rs. 280 lakhs, then what was the sum of income and profit of company B in the year 2014?

- A. Rs. 196 lakhs
- B. Rs. 378 lakhs
- C. Rs. 424 lakhs
- D. Rs. 476 lakhs

15.What is the average amount of profit earned by company A over the given years?

- A. Rs. 41.67 lakhs
- B. Rs. 43.32 lakhs
- C. Rs. 42.67 lakhs
- D. Can't be determined

16.If in the year 2015, income of both the companies A and B were same, what was the respective ratio of their expenditure in that year?

- A. 28 : 31
- B. 31 : 28
- C. 28 : 25
- D. Can't be determined

17.Ratio of income of company A and company B in the year 2013 was 7 : 15. If the total expenditure of company A and B together in the year 2013 was Rs. 697 lakh, then what was the total profit earned by company A and company B together in the year 2013?

- A. Rs. 205 lakhs
- B. Rs. 190 lakhs
- C. Rs. 180 lakhs
- D. Rs. 215 lakhs

**Direction:** In the given series one number is wrong, find out the wrong number.

18. 59, 60, 64, 73, 84, 114

- A. 59
- B. 60
- C. 84
- D. 114

19.16, 8, 24, 6, 30, 10



- A. 8
- B. 16
- C. 10
- D. 24

20.28, 63, 133, 274, 553, 1113

- A. 28
- B. 63
- C. 133
- D. 274



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**###ANSWERS###**

1. Ans. B.

$$(192 \% \text{ of } 175) - (306 \div 18) = ? - 17 \times 34 + 11^2$$

$$\Rightarrow \frac{192}{100} \times 175 - \frac{306}{18} = ? - 578 + 121$$

$$\Rightarrow 336 - 17 + 578 - 121 = ?$$

$$\Rightarrow ? = 776$$

2. Ans. B.

$$\Rightarrow 17.64 + 73.96 - 38.44 = ?^2 + 4.16$$

$$\Rightarrow 91.6 - 38.44 = ?^2 + 4.16$$

$$\Rightarrow 53.16 = ?^2 + 4.16$$

$$\Rightarrow ?^2 = 53.16 - 4.16$$

$$\Rightarrow ?^2 = 49$$

$$\Rightarrow ? = \sqrt{49}$$

$$\Rightarrow ? = 7$$

3. Ans. B.

$$\sqrt{?} \% \text{ of } 160 = 64 \div 2$$

$$\Rightarrow \frac{160 \times \sqrt{?}}{100} = 32$$

$$\Rightarrow \sqrt{?} = \frac{32 \times 100}{160}$$

$$\Rightarrow \sqrt{?} = 20$$

$$\Rightarrow ? = 400$$

4. Ans. B.

$$6668 - 68 = ? + 1347$$

$$6668 = ? + 1347 + 68$$

$$? = 6668 - 1415$$

$$? = 5253$$

5. Ans. D.

$$(24.5 + 15.5) \times 9 \div \sqrt{576} = ?$$

$$\Rightarrow 40 \times 9 \div \sqrt{576} = ?$$

$$\Rightarrow 360 \div 24 = ?$$

$$\Rightarrow ? = 15$$

6. Ans. D.

$$? = \frac{18}{100} \times 1500 + 22 \times \frac{16}{176} = 270 + 2 = 272$$

7. Ans. B.



Time difference between both the trips =  $8 + 4 = 12$  minutes =  $\frac{12}{60} = \frac{1}{5}$  hour  
 Let the distance between her home and station be 'x' km

$$\text{So, } \frac{x}{25} - \frac{x}{30} = \frac{1}{5}$$

$$5x = 150, x = 30 \text{ km}$$

So, the time taken by Kirti to reach station if she will travel with a speed of 25 km/hr =  $\frac{30}{25} = 1.2 \text{ hours} = 1 \text{ hour } 12 \text{ minutes}$

So, the time of departure of train =  $8:30 + 1:12 - 0:08 = 9:34 \text{ am}$

So option (B) is the correct answer.

8. Ans. B.

Ratio of their present ages:

P	:	Q	:	R
5		6		5
20	:	24	:	30
10	:	12	:	15

Let the present age of Q and R be 12x and 15x years respectively.

After 6 years, the ratio of ages of Q and R becomes 5 : 6

Then,

$$\frac{12x + 6}{15x + 6} = \frac{5}{6}$$

$$\Rightarrow 72x + 36 = 75x + 30$$

$$\Rightarrow 36 - 30 = 75x - 72x$$

$$\Rightarrow 6 = 3x$$

$$\Rightarrow x = 2$$

After putting value of X in Q and R's present age,

Q's present age =  $12 \times 2 = 24$  years

As we know Q's father is 22 years elder than Q so

Q's father's present age =  $24 + 22 = 46$  years

9. Ans. C.

Let the speed of boat in still water be 'u' km/h and speed of stream be 's' km/h.

So, upstream speed =  $(u - s)$  km/h

And the downstream speed =  $(u + s)$  km/h

Using the data provided in the question, we get:

$$\frac{100}{u - s} + \frac{137.5}{u + s} = 32.5 \dots(i)$$





$$\frac{75}{u-s} + \frac{110}{u+s} = 25 \dots(\text{ii})$$

Let  $\frac{1}{u+s} = b$  and  $\frac{1}{u-s} = a$

$$100a + 137.5b = 32.5 \dots(\text{iii})$$

$$75a + 110b = 25 \dots(\text{iv})$$

Solving equations (iii) and (iv), we get:

$$a = \frac{1}{5} \text{ and } b = \frac{1}{11}$$

So,  $u - s = 5 \dots(\text{v})$

And,  $u + s = 11 \dots(\text{vi})$

Solving the equations (v) and (vi), we get:

$$u = 8 \text{ km/h}$$

10. Ans. C.

Let total capacity of tank = 60 units

Therefore, Pipe 1 drains 2 units from tank each hour

Pipe 2 drains 1 unit from tank every hour

Therefore third pipe should inflow 3 units every hour in tank so that there is no net inflow and outflow.

Capacity required for third pipe =  $60/3$

$$= 20 \text{ hours}$$

11. Ans. D.

Let Tanmay's initial capital be Rs.  $x$ .

Then the initial capitals of Kunal and Rishi would be Rs.  $(x - 16000)$  and Rs.  $(x - 40000)$  respectively.

$$\text{So, } x + (x - 16000) + (x - 40000) = 184000$$

$$\Rightarrow 3x - 56000 = 184000$$

$$\Rightarrow x = 80000$$

So, initial capital of Tanmay, Kunal and Rishi are Rs. 80000, Rs. 64000 and Rs. 40000, respectively.

Profit sharing ratio between Tanmay, Kunal and Rishi at the end of the year =  $[80000 \times 12] : [64000 \times 3 + 54000 \times 9] : [40000 \times 12] = 960000 : 678000 : 480000 = 160 : 113 : 80$

Let the total profit at the end of year be Rs.  $a$ .

According to the question,

$$\frac{113}{353}$$

$$\times a = 2260$$

$$\text{So, } a = 7060$$

Hence, option D is correct.

12. Ans. A.

Money used for savings + investments + miscellaneous = 25000 = 62.5% of salary



$$\text{Money used for savings} = \text{money used for investments} = \frac{25000}{3} = \text{Rs. } 8333\frac{1}{3}$$

$$\text{Salary} = \frac{25000}{0.625} = \text{Rs. } 40000$$

$$\text{Money used for expenditures} = 0.25 \times 40000 = \text{Rs. } 10000$$

$$\text{Money used for education} = 0.125 \times 40000 = \text{Rs. } 5000$$

$$\text{Money used for expenditures + savings} = 10000 + 8333.33 = \text{Rs. } 18333.33$$

$$\text{Money used for education and investment} = 5000 + 8333.33 = \text{Rs. } 13333.33$$

$$\text{Difference} = \text{Rs. } 5000$$

13. Ans. C.

Income of company A in the years 2008, 2009 and 2010 are Rs. 1104 lakh,  $1104 \times 1.25 = \text{Rs. } 1380$  lakh and  $1380 \times 1.25 = \text{Rs. } 1725$  lakh respectively.

$$\text{Profit} = \frac{\text{Income} \times \text{profit percent}}{100 + \text{profit percent}} = \frac{1380 \times 20}{120}$$

$$\text{Profit in 2009} = \frac{1380 \times 20}{120} = \text{Rs. } 230 \text{ lakh}$$

$$\text{Profit in 2010} = \frac{1725 \times 15}{115} = \text{Rs. } 225 \text{ lakh}$$

Hence, the total profit made by company A in the year 2009 and 2010 together =  $230 + 225 = \text{Rs. } 455$  lakh

14. Ans. D.

$$\frac{\text{Expenditure}}{100} = \frac{\text{Income}}{100 + \text{profit percent}} = \frac{\text{Profit}}{\text{Profit percent}}$$

$$\Rightarrow \frac{280}{100} = \frac{\text{Income}}{135} = \frac{35}{\text{Profit}}$$

$$\Rightarrow \text{Income} = \text{Rs. } 378 \text{ lakh}$$

$$\Rightarrow \text{Profit} = \text{Rs. } 98 \text{ lakh}$$

$$\therefore \text{Sum total of income and profit} = 378 + 98 = \text{Rs. } 476 \text{ lakhs}$$

15. Ans. D.

Income and expenditure is not given, therefore from profit percentage, profit cannot be determined.

16. Ans. B.

Income of both the companies A and B were same.

$$\text{We know, ratio of expenditure} = \text{ratio of } \frac{\text{Income}}{100 + \text{Profit percent}}$$

$$\text{Hence, required ratio} = \frac{1}{100 + 40} : \frac{1}{100 + 55} = 155 : 140 = 31 : 28$$

17. Ans. A.

$$\text{We know, ratio of expenditure} = \text{ratio of } \frac{\text{Income}}{100 + \text{Profit percent}}$$

$$\text{Ratio of expenditure of A and B} = \frac{7}{140} : \frac{15}{125} = 5 : 12$$



Hence, required profit = Profit of company A + Profit of company B =  $\frac{5}{17} \times 697$   
 $\times \frac{40}{100} + \frac{12}{17} \times 697 \times \frac{25}{100} = 205$  lakhs

18. Ans. C.

Pattern of the series is:

$$59 + 1^2 = 60$$

$$60 + 2^2 = 64$$

$$64 + 3^2 = 73$$

$$73 + 4^2 = \mathbf{89}$$

$$89 + 5^2 = 114$$

Hence, the answer is option C.

19. Ans. C.

The pattern of series is

$$16 \div 2 = 8$$

$$8 \times 3 = 24$$

$$24 \div 4 = 6$$

$$6 \times 5 = 30$$

$$30 \div 6 = 5$$

20. Ans. D.

Pattern of the series is:

$$28 \times 2 + 7 = 63$$

$$63 \times 2 + 7 = 133$$

$$133 \times 2 + 7 = \mathbf{273}$$

$$273 \times 2 + 7 = 553$$

$$553 \times 2 + 7 = 1113$$

Hence, the answer is option D.

