



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

1. The average age of 20 students in a class is 19 years. If the teacher's age is included, the average age is increased by one. Find the age of the teacher.

- a. 30 **b. 40** c. 20 d. 25 e. 45

$$\text{Increase / Decreased Avg} = \frac{\text{In} - \text{old}}{\text{Total}}$$

$$1 = \frac{x - 19}{21}$$

$$21 = x - 19$$

$$x = 40$$



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

2. The average weight of 5 persons is 85 kg. If a person weighing 25 kg is replaced by another person weighing 45 kg, find the new average weight.

- a. 86 b. 84 ☒ c. 89 d. 87 e. None of these

$$\text{I/D} \quad \text{Avg} = \frac{45 - 25}{5} = \frac{20}{5} = 4$$

$$A = 85 + 4 = 89$$



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

3. The average of seven numbers is 32. If one number is excluded, the average becomes 29. Find the excluded number.

a. 40 **b. 50** c. 30 d. 46 e. 35

$$-3 = \frac{-(x - 32)}{6} \quad x = 50$$

$$18 = x - 32$$



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

4. The sum of six numbers is 250. The average of the first three numbers is 45 and the average of the last two numbers is 35. Find $\frac{1}{3}$ rd of the fourth number.

a. 18 b. 16 c. 15 d. 13 e. 11

$$250 = 3 \times 45 + 2 \times 35 + x$$

$$250 = 135 + 70 \quad x = 45$$

$$250 = 205 + x$$

$$\frac{x}{3} = \frac{45}{3} = 15$$



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

5. There are three sections (A, B, C) in class 6. Average marks of 25 students in A is 42, of 20 students in B is 39, and of 15 students in C is 30. Find the average marks of all three sections combined.

a. 36 b. 38 c. 34 d. 32 e. 40

$$\begin{array}{rcl} 25 & \rightarrow & 42 \\ 20 & \rightarrow & 39 \\ \hline 15 & \rightarrow & 30 \\ 60 & & \end{array}$$

$$A = \frac{25 \times 42 + 20 \times 39 + 15 \times 30}{60}$$

$$\begin{array}{r} 180 \\ 300 \\ \hline \end{array}$$

$$30 + \frac{0 \times 15 + 9 \times 20 + 12 \times 25}{60} = 30 + \frac{480}{60} = 38$$



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

6. The average of n observations is 50. If three observations of 55, 65 and 70 are added, the average of all observations becomes 52. Find the value of $2n$.

- a. 32 b. 34 c. 36 d. 38 e. 42

$$\text{I n / d} = \frac{5+5+20}{n+3}$$

$$2 = \frac{40}{n+3}$$

$$n = 17$$

$$n+3 = 20$$

$$2n = 34$$



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

7. If P is $\frac{2}{7}$ th of R, Q is thrice of P, and the average of P, Q and R is 45, find the difference between Q and P.

a. 36 b. 34 c. 38 d. 44 e. 48

Handwritten solution:

Diagram showing relationships: $Q \rightarrow P \rightarrow R$ with arrows indicating that Q is thrice P and P is $\frac{2}{7}$ th of R.

$$R = 7x$$
$$P = 2x$$
$$Q = 6x$$
$$\frac{15x}{3} = 5x$$
$$5x = 45$$
$$x = 9$$
$$4x = 4 \times 9 = 36$$



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

8. In a group of three numbers, the average of the 1st two numbers is 6, the average of the last two numbers is 4 more than that, and the average of the 1st and last number is 15. Find the average of the three numbers.

a. 32/3 b. 35/3 c. 31/3 d. 29/3 e. 25/3

$$a+b \rightarrow 6 \times 2 = 12$$

$$a+b+c = 31$$

$$b+c \rightarrow 10 \times 2 = 20$$

$$\frac{a+b+c}{3} = \frac{31}{3}$$

$$a+c \rightarrow 15 \times 2 = 30$$

$$\frac{2(a+b+c)}{6} = \frac{30}{6} = 5$$



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

9. The average weight of n persons is 53 kg. If one person's weight is decreased by 20 kg and another's is increased by 15 kg, the average of n persons decreases by 1 kg. Find the value of n .

- a. 7 ~~b. 5~~ c. 8 d. 3 e. None of these

$$\frac{-20 + 15}{n} = -1 \quad n = 5$$
$$\frac{-5}{n} = -1$$



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

10. The ratio of the total number of balls in boxes A and B is 7:4, and box A has 50 more balls than box C. If the sum of balls in boxes B and C is 280, find the total number of balls in box A.

- ☒ a. 210 b. 150 c. 300 d. 270 e. None of these

$$A = 7x$$

$$C = 7x - 50$$

$$B = 4x$$

$$11x - 50 = 280$$

$$11x = 330 \Rightarrow x = 30$$

IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

11. In a company there are 40 employees. The average weight of male employees is 80 kg and of female employees is 60 kg. If the average weight of the company is 72.5 kg, find the number of male employees.

- a. 30 b. 20 c. 32 d. 25 e. None of these

$$\begin{array}{l}
 \begin{array}{cc}
 80 & 60 \\
 \swarrow & \searrow \\
 & 72.5 \\
 \swarrow & \searrow \\
 72.5 - 60 & 80 - 72.5 \\
 12.5 & 7.5 \\
 \downarrow & \downarrow \\
 5 : 3 & \rightarrow \text{Quant}
 \end{array} \\
 \text{M.F} = 5:3 \\
 \text{40} \times \frac{5}{8} = 25
 \end{array}$$



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

12. The average weight of 13 children is 20 kg. If the teacher's weight is included, the average becomes 22 kg. Find the weight of the teacher.

- a. 48 kg b. 50 kg c. 44 kg d. 46 kg e. 52 kg

$$\frac{T}{D} = \frac{x-20}{14}$$

$$2 = \frac{x-20}{14}$$

$$28 = x - 20$$
$$x = 48$$



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

13. The average of five consecutive even numbers is 16. Find the square of the lowest even number.

✓ a. 144 b. 146 c. 142 d. 140 e. 138

x $x+2$ $x+4$ $x+6$ $x+8$

$$\begin{aligned} A &= \frac{x + (x+8)}{2} \\ &= \frac{2x+8}{2} = x+4 \end{aligned}$$

$$\begin{aligned} x+4 &= 16 \\ x &= 12 \end{aligned}$$



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

14. The average amount of jaggery sweets offered in a temple in a week was 60 kg. The average of sweets offered in 6 days excluding Thursday was 58 kg. How many sweets were offered on Thursday?

- a. 70 kg b. 74 kg c. 76 kg d. 72 kg e. 78 kg

$$+2 = \frac{+(x - 60)}{6} \quad 12 = (x - 60) \quad x = 72$$



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

15. The average weight of 5 members is 40 kg. One person's weight of 50 kg was wrongly entered as 42 kg. Find the average weight of the remaining 4 persons.

- a. 45 kg b. 32 kg c. 36.5 kg ☒ d. 39.5 kg e. None of these

$$\text{Total} = 40 \times 5 = 200$$

$$= 200 - 42 = 158$$

$$A = \frac{158}{4} = 39.5$$

IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

16. The total marks obtained by a student in A, B and C together is 200 more than the marks obtained in B. What is the average marks obtained in A and C together?

- ☒ a. 100 b. 80 c. 98 d. Cannot be determined e. None of these

$$A + B + C = B + 200$$

$$\frac{A + C + 200}{2} = 100$$



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

17. The average age of 15 students in a class is 20 years. Three new students join and the average increases by 1 year. Find the average age of the three new students.

- a. 24 years b. 25 years ☒ c. 26 years d. 28 years e. None of these

$$\begin{aligned} \text{I/d } A &= \frac{3(\text{In} - \text{ad})}{18} \\ 1 &= \frac{x - 20}{6} \end{aligned}$$

$6 = x - 20$
 $x = 26$



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

19. The average age of A, B, C, D and E is 70 years. The average age of A and B is 70 years and the average age of C and D is 75 years. What is E's age after 10 years?

- a. 80 years ☒ b. 70 years c. 60 years d. 90 years e. None of these

$$70 \times 5 = 70 \times 2 + 75 \times 2 + E$$

$$350 = 140 + 150 + E$$

$$350 = 290 + E$$

$$E = 60$$

$$E = 70$$



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

20. There are 5 consecutive odd numbers and 3 consecutive even numbers. The average of the five consecutive odd numbers is 15. The lowest even number is twice the highest odd number. Find the average of the 3 consecutive even numbers.

a. 38 b. 36 c. ~~40~~ d. 42 e. None of these

$$x \quad x+2 \quad x+4 \quad x+6 \quad x+8$$

$$11 \quad 13 \quad 15 \quad 17 \quad 19$$

$$38 \quad 40 \quad 42 \rightarrow \frac{80}{2} = 40$$

$$\frac{x+x+8}{2} = \frac{2x+8}{2}$$

$$= x+4$$

$$x+4=15$$

$$x=11$$

IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 11 - AVERAGE

1. The average weight of 20 students in a class is 60 kg. The average increases by 5 kg when two new students join. Find the average weight of the two new students.

a. 110 kg b. 115 kg c. 120 kg d. 125 kg e. None of these

2. If the average of the ages of A and B is 28 years, the average of B and C is 24 years, and the average of A and C is 32 years, find A's present age.

a. 32 years b. 28 years c. 36 years d. Cannot be determined e. None of these

3. The average age of 8 persons is increased by 2 years when 2 of them, aged 18 and 22 years, are replaced by 2 girls. Find the average age of the two girls.

a. 24 years b. 26 years c. 22 years d. 28 years e. None of these

4. If the average age of A, B and C is 48 years, the average age of D, E and F is 52 years, and the average age of A to G (all 7) is 50 years, find the age of G.

a. 48 years b. 50 years c. 52 years d. 54 years e. None of these

5. The average salary of A, B and C is Rs. 21,000 per month, and the average salary of B, C and D is Rs. 23,000 per month. If the total salary of A and D is Rs. 50,000, find the average salary of B and C.

a. Rs. 22,500 b. Rs. 34,000 c. Rs. 20,500 d. Rs. 28,000 e. None of these

ENGLISH PRACTICE

1. In the following questions, five sentences are provided. Choose the sentence that contains an error.

- A. Hardly had the rescue team arrived when the fire spread further.
- B. The river is as clean as it was last winter.
- C. Each of the rescued birds were released only after a thorough medical examination.
- D. Travel experts advise maintaining consistent sleep habits even during vacations to avoid post-travel fatigue.
- E. Given the prolonged drought, officials introduced stricter groundwater regulations.

2. In the following questions, five sentences are provided. Choose the sentence that contains an error.

- A. Economists suggest that a moderate fiscal deficit can support growth if funds are used effectively.
- B. No sooner did the rain stop then children returned to the playground.
- C. The road is wide enough to handle heavy traffic.
- D. Hemant insisted on paying the entire bill despite the fact that it was not his responsibility at all.
- E. Work-life balance is essential for maintaining both physical and emotional health.

3. In the following questions, five sentences are provided. Choose the sentence that contains an error.

- A. Had the warning reached earlier, the villagers would evacuate safely.
- B. Water management is becoming increasingly important as urban demand continues to rise.
- C. Fiscal discipline is important to ensure that public finances remain sustainable over time.
- D. The crops would have survived if irrigation had arrived earlier.
- E. Maintaining a healthy lifestyle requires a balanced diet, regular exercise, and adequate rest.

4. In the following questions, five sentences are provided. Choose the sentence that contains an error.

- A. The scientist insisted that every sample be examined twice before publication.
- B. Unless industrial emissions decline, glaciers will continue to retreat at an alarming pace.
- C. Not only did the campaign reduce litter, but it also inspired volunteers.
- D. Experts caution that short-term economic gains must not come at the cost of long-term environmental stability.
- E. All are correct

5. In the following questions, five sentences are provided. Choose the sentence that contains an error.

- A. The expedition was too exhausting for the youngest volunteer so complete without assistance.
- B. The museum, which houses rare coins, reopened yesterday.

- C. Either the guide or the tourists are carrying the first-aid kit.
- D. Each of the seedlings was watered regularly.
- E. A balanced approach is needed to manage the fiscal deficit without slowing economic growth.

6. In the given sentence, certain words are in bold and numbered from 1 to 4, which are the possible pairs to be arranged. Choose the pair(s) of words that need(s) to be arranged to make the sentence grammatically correct and meaningful.

"Scientists studying animal behaviour [1] discover to [2] continue complex [3] forms of communication among various [4] species."

- a. 4231 b. 1243 c. 2134 d. 3421 e. No arrangement required

7. "Many travellers now prefer slower [1] traditions that allow them to [2] life local [3] journeys and everyday [4] experience."

- a. 4321 b. 1243 c. 2341 d. 3412 e. No arrangement required

8. "[1] challenges in medical research continue to [2] improve the [3] quality of life for people facing chronic health [4] Advances."

- a. 4231 b. 1243 c. 2341 d. 3421 e. No arrangement required

9. "Philosophical [1] debates surrounding [2] diversity often reveal the [3] morality of human perspectives across [4] cultures."

- a. 4213 b. 1324 c. 2341 d. 3421 e. No arrangement required

10. "Curiosity and imagination have remained [1] essential forces [2] behind humanity's [3] artistic and [4] intellectual achievements."

- a. 4231 b. 1243 c. 2341 d. 3421 e. No arrangement required