

Quiz Date: 8th July 2020

Q1. The average temperature from Monday to Thursday is 48°C and from Tuesday to Friday is 52°C . If the temperature on Monday is 42°C , what was it on Friday?

- (a) 55°C
- (b) 52°C
- (c) 58°C
- (d) 51°C
- (e) 56°C

Q2. In a class there are 72 boys whose average age is decreased by 2.5 months, when 1 boy aged 30 years is replaced by a new boy. Find the age of the new boy.

- (a) 16 years
- (b) 10 years
- (c) 15 years
- (d) 20 years
- (e) 24 years

Q3. Raju got married 8 years ago. His present age is $\frac{6}{5}$ times his age at the time of his marriage. Raju's sister was 10 years younger to him at the time of his marriage. The present age of Raju's sister is:

- (a) 32 years
- (b) 36 years
- (c) 38 years
- (d) 40 years
- (e) 45 years

Q4. In an exam Ritiz scored 52 percent marks, Sunil scored 64 percent marks and Ravi scored 74 percent of marks. The maximum marks of the exam are 750. What are the average marks scored by all the three boys together?

- (a) 475
- (b) 485
- (c) 450
- (d) 490
- (e) 540

Q5. The average age of A and B is 22 years. If C were to replace A, the average would be 18 and if C were to replace B, the average would be 23. What are the ages of A, B and C?

- (a) 27, 17, 19
- (b) 18, 22, 20
- (c) 22, 20, 18
- (d) 18, 20, 22
- (e) 20, 14, 28

Q6. The average of the age of Sumit, Krishna and Rishabh is 43 years and the average of the age of Sumit, Rishabh and Rohit is 49 years. If Rohit is 54 years old, what is Krishna's age?

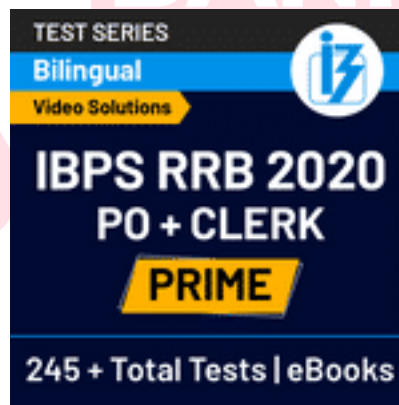
- (a) 45 years
- (b) 24 years
- (c) 36 years
- (d) Cannot be determined
- (e) None of these

Q7. The average age of a group of 14 person is 27 years and 9 months. Two persons, each 42 years old, left the group. What will be the average age of the remaining persons in the group ?

- (a) 26.875 years
- (b) 26.25 years
- (c) 25.375 years
- (d) 25 years
- (e) None of these

Q8. The average age of some males and 15 females is 18 years. The sum of the ages of 15 females is 240 years and average age of males is 20 years. Find the number of males.

- (a) 8
- (b) 7
- (c) 10
- (d) 15
- (e) None of these



Q9. The difference between the present age of Arun and Deepak is 14 years. Seven years ago the ratio of their ages was 5 : 7 respectively. What is Deepak's present age ?

- (a) 49 years
- (b) 42 years
- (c) 63 years
- (d) 35 years
- (e) 56 years

Q10. The sum of present ages of Ria and Abby is 48 years. Today Abby is 4 years older than Shweta. The respective ratio of the present ages of Ria and Shweta is 4 : 7. What was Abby's age two years ago ?

- (a) 32 years
- (b) 30 years

- (c) 28 years
- (d) 34 years
- (e) None of these

Q11. The respective ratio of the present age of a mother and daughter is 7 : 1. Four years ago the respective ratio of their age was 19 : 1. What will be the mother's age four years from now ?

- (a) 42 years
- (b) 38 years
- (c) 46 years
- (d) 36 years
- (e) None of these

Q12. The present ages of Ranjana and Rakhi are in the ratio of 15 : 17 respectively. After 6 years, the respective ratio between the age of Ranjana and Rakhi will be 9 : 10. What will be the age of Ranjana after 6 years ?

- (a) Other than those given as options
- (b) 40 years
- (c) 34 years
- (d) 30 years
- (e) 36 years

Q13. The average weight of the students of a class is 51kg. The ratio of boys and girls is 11:6. If the total no. of girls are 12 and weight of teacher is also included, the average weight increases by one kg. What is the weight of teacher?

- (a) 76 kg
- (b) 82 kg
- (c) 86 kg
- (d) 78 kg
- (e) 68 kg

Q14. Average score of a cricketer in 13 matches is 42 runs. If the average score in the first 5 matches be 54 runs, what is the average score in the last eight matches?

- (a) 36.5
- (b) 34.5
- (c) 35.4
- (d) 38.5
- (e) 32.5

Q15. The average of five positive numbers is 308. The average of first two numbers is 482.5 and the average of last two numbers is 258.5. What is the third number?

- (a) 224
- (b) 58
- (c) 121
- (d) 68
- (e) 78

Solutions

S1. Ans.(c)

Sol.

Given

$$\frac{\text{Mon} + \text{Tue} + \text{Wed} + \text{Thu}}{4} = 48^\circ$$

$$\therefore 42^\circ + \text{Tue} + \text{Wed} + \text{Thu} = 192^\circ$$

$$\Rightarrow \text{Tue} + \text{Wed} + \text{Thu} = 150^\circ \dots(i)$$

$$\text{And, } \frac{\text{Tue} + \text{Wed} + \text{Thu} + \text{Fri}}{4} = 52^\circ$$

$$\Rightarrow 150^\circ + \text{Fri} = 208^\circ \text{ [from Eq. (i)]}$$

$$\Rightarrow \text{Fri} = 58^\circ$$

S2. Ans. (c)

Sol.

Effect on total age of the class = $72 \times 2.5 = 180$ month or 15 years decrease so the age of new boy will be $30 - 15 = 15$ years

S3. Ans.(c)

Sol.

Let Raju's present age = x

$$\text{A/q, } x = \frac{6}{5}(x - 8)$$

$$\Rightarrow x = \frac{6x}{5} - \frac{48}{5}$$

$$\Rightarrow x = 48$$

\therefore Present age of Raju's sister

$$= 48 - 10 = 38 \text{ years.}$$

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S4. Ans.(a)

Sol.

Average marks scored by all the three boys together

$$= \frac{1}{3} \times \frac{(52+64+74)}{100} \times 750$$

$$= \frac{1}{3} \times \frac{190}{100} \times 750$$

$$= 475$$

S5. Ans.(a)

Sol.

$$A + B = 22 \times 2$$

$$\Rightarrow A + B = 44$$

$$\text{and } B + C = 36$$

$$\text{and } C + A = 46$$

$$\therefore A + B + C = \frac{126}{2} = 63$$

$$\therefore \text{Age of } A = 63 - 36 = 27 \text{ years}$$

$$\text{Age of } B = 63 - 46 = 17 \text{ years}$$

$$\text{Age of } C = 63 - 44 = 19 \text{ years}$$

S6. Ans.(c)

Sol.

Total age of Sumit, Krishna and Rishabh = 129

And total age of Sumit, Rishabh and Rohit = 147

\therefore ages of Rohit is 54 years

$$\therefore \text{Age of Sumit and Rishabh} = 147 - 54$$

$$= 93$$

$$\therefore \text{Age of Krishna} = 129 - 93$$

$$= 36 \text{ years}$$

S7. Ans.(c)

Sol.

Required average of ages

$$= \frac{14 \times \frac{111}{4} - 2 \times 42}{12}$$

$$= 25.375 \text{ years}$$

S8. Ans.(d)

Sol.

Let there are n no. of males

$$\therefore (n + 15) \times 18 = 240 + 20n$$

$$\Rightarrow n = 15$$

S9. Ans.(e)

Sol.

Let Deepak's present age = $(7x + 7)$ years

Arun's present age = $(5x + 7)$ years

ATQ,

$$7x - 5x = 14$$

$$x = 7$$

$$\therefore \text{Deepak's present age} = 49 + 7 = 56 \text{ years}$$

S10. Ans.(b)

Sol.

Let present ages of Ria and Shweta
be $4x$ and $7x$ respectively.

\therefore Abby's present age = $(7x + 4)$ years

ATQ,

$$4x + 7x + 4 = 48$$

$$\Rightarrow x = 4$$

\therefore Abby's age two years ago = $28 + 2 = 30$ years

S11. Ans.(c)

Sol.

Let their present ages be $7x$ and x years respectively.

ATQ,

$$\frac{7x - 4}{x - 4} = \frac{19}{1}$$

$$\Rightarrow 7x - 4 = 19x - 76$$

$$\Rightarrow x = 6$$

\therefore Mother's age four years later = $42 + 4 = 46$ years

S12. Ans.(e)

Sol.

Let present age of Ranjana = $15x$
& that of Rakhi = $17x$

ATQ,

$$\frac{15x + 6}{17x + 6} = \frac{9}{10}$$

$$\Rightarrow 150x + 60 + 153x + 54$$

$$\Rightarrow x = 2$$

\therefore Age of Ranjana after 6 years

$$= 15 \times 2 + 6 = 36 \text{ years}$$

S13. Ans. (c)

Sol.

$$\text{Total no. Of students} = 12 + 12 \times \frac{11}{6}$$

$$= 34$$

$$\therefore \text{New average} = \frac{34 \times 51 + x}{35} = 52$$

$$\Rightarrow x = 1,820 - 1,734$$

$$\Rightarrow x = 86 \text{ kg}$$

S14. Ans.(b)

Sol.

Total runs in the last eight matches

$$= 13 \times 42 - 5 \times 54 = 546 - 270$$

$$= 276$$

∴ Required average

$$= \frac{276}{8} = 34.5$$



S15. Ans.(b)

Sol.

Average of 5 numbers = 308

$$\therefore \text{Sum of 5 numbers} = 308 \times 5 = 1540$$

$$\text{Sum of first 2 numbers} = 482.5 \times 2 = 965$$

$$\text{Sum of last 2 numbers} = 258.5 \times 2 = 517$$

$$\therefore \text{Third number} = 1540 - 965 - 517 = 58$$



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