

AVERAGE BASED QUANTITATIVE APTITUDE PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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Q1. In a match, average of runs scored by 7 players is 53. If the runs scored by 6 players are 121, 40, 26, 56, 37 and 48, then how many runs did the 7th player scored?

- a) 43
- b) 48
- c) 26
- d) 37

Q2. The average monthly expenditure of Mr.Ravi's family for the first three months is Rs 2,750, for the next three months is Rs 2,940 and for the last three months Rs 3,150. If his family saves Rs 4980 for nine months, find the average monthly income of the family for the 9 months?

- a) Rs. 3400
- b) Rs. 4200
- c) Rs. 3800
- d) Rs. 3500
- e) Rs. 4500

Q3. A cricketer has an average of 55 after playing 20 innings. How much runs should he scores in the next inning so as to increase the average to 57.

- a) 97
- b) 98
- c) 95
- d) 96
- e) None of these

Q4. Average age of girls in a class is 16 years. If the average of the boys in class is also added, the average becomes 15.5 years. If there were 20 boys in the class with average age 15 years, how many girls were there in the class?

- a) 20
- b) 25
- c) 15
- d) 40
- e) 30

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Q5. The average age of a couple at the time of marriage was 20 years. After 8 years of marriage they have a baby of 4 years old. Calculate the average age of the family when the baby was born.

- a) 17

b) 18

c) 16

d) 15

Q6. The average of 5 consecutive number is 58. Find the first number ?

a) 57

b) 58

c) 55

d) 56

Q7. The average age of a family of 9 members is 22 years. Surya is the youngest and his age is 6 years, then what was the average age of the family just before Surya was born?

a) 18

b) 20

c) 15

d) 16

e) 24

Q8. The average of 8 consecutive natural numbers is 38.5. What is the largest of these 8 numbers?

a) 42

b) 45

c) 41

d) 39

Q9. The average age of 24 students is 12 years. It was observed that while calculating the average age, the age of a student was taken as 14 years instead of 8 years. What will be the correct average age (in years)?

a) 11.75

b) 12.25

c) 11.25

d) 11.5

Q10. The present average age of a family of 5 members is 40 years. If the youngest member of the family is 12 years old, then find the average age of the family at the time of birth of the youngest member.

a) 34

b) 35

c) 32

d) 33

e) None of these

Q11. The average marks in English subject of a class of 24 students are 56. If the marks of three students were misread as 44, 45 and 61 of the actual marks 48, 59 and 67 respectively, then what would be the correct average?

a) 57.5

b) 58.5

b) 58

c) 56

d) 55

e) None of these

Q12. The average price of 80 mobile phones is Rs.30,000. If the highest and lowest price mobile phones are sold out then the average price of remaining 78 mobile phones is Rs. 29,500. The cost of the highest mobile is Rs.80,000. The cost of lowest price mobile is?

a) Rs. 19000

b) Can't be determined

c) Rs. 18000

d) Rs. 15000

e) None of these

Q13. The average of first and second number is 25 more than the average off the second and third number. Find the difference between the first and the third number

a) 40

b) 50

c) 20

d) 30

e) None of these

Answers to the above questions :

Q1. Answer: (a)

$$\text{Total run} = 7 \times 53 = 371$$

$$\text{Run by C players} = 121 + 40 + 26 + 56 + 37 + 48 = 328$$

$$\therefore \text{run by seventh players} = 371 - 328 = 43$$

Q2. Answer: (d)

$$\text{Average monthly expenditure for 3 months} = \text{Rs. } 2750$$

$$\text{Total expenditure for 3 months} = \text{Rs } 2750 \times 3 = \text{Rs. } 8250$$

$$\text{Average monthly expenditure for 3 months} = \text{Rs. } 2940$$

$$\text{Total expenditure for 3 months} = \text{Rs } 2940 \times 3 = \text{Rs. } 8820$$

$$\text{Average monthly expenditure for 3 months} = \text{Rs. } 3150$$

$$\text{Total expenditure for 3 months} = \text{Rs } 3150 \times 3 = \text{Rs. } 9450$$

$$\text{Total savings for 9 months} = 4980$$

$$\text{Average monthly income for 9 months}$$

$$= (8250 + 8820 + 9450 + 4980)/9 = 3500$$

Q3. Answer: (a)

$$\text{Runs after 20 innings} = 55 \times 20,$$

$$\text{so } (1100 + X)/21 = 57, \text{ after solving we will get } X = 97$$

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Q4. Answer: (a)

Let x girls in the class, so

$$16x + 20 \times 15 = 15.5(x + 20)$$

$$16x + 300 = 15.5x + 310$$

$$16x - 15.5x = 310 - 300$$

$$0.5x = 10$$

$$x = 20$$

Q5. Answer: (c)

At the time of marriage $H + W = 40$.

So when baby was means after 4 years from their marriage

$$\text{so } (40 + 4 + 4)/3 = 16$$

Q6. Answer: (d)

$$X + x + 1 + x + 2 + x + 3 + x + 4 = 58 \times 5 = 290$$

$$5x + 10 = 290$$

$$X = 290 - 10/5 = 280/5 = 56$$

Q7. Answer: (a)

$$9 \times 22 - 9 \times 6/8 = 18$$

Q8. Answer: (a)

Sum of 8 consecutive natural numbers = $8 \times 38.5 = 308$

$$\therefore \frac{n}{2} [2a + (n - 1) d] = 308$$

$$\Rightarrow \frac{8}{2} [2a + (8 - 1)1] = 308$$

$$\Rightarrow a = 35$$

\therefore the largest number is 42.

Q9. Answer: (a)

Student = 24

Average = 12

Difference in year = $14 - 8 = 6$

Difference in Average = $\frac{24}{6} = 0.025$

Actual Average = $12 - 0.25 = 11.75$

Q10. Answer: (b)

Present age of the family = $5 \times 40 = 200$ years.

12 years ago at the time of the birth of youngest member, age of family = $200 - 12 \times 5 = 140$.

So average age = $140/4 = 35$ year

Q11. Answer: (e)

Difference = $48 + 59 + 67 - 44 - 45 - 61 = 24$

\therefore Correct average

$$= 56 + \frac{24}{24} = 57$$

Q12. Answer: (a)

The price of the costliest and cheapest mobile

$$= (80 \times 3000) - (78 \times 29500) = 99000$$

$$\text{Cheapest Mobile Price} = 99000 - 80000 = 19000$$

Q13. Answer: (b)

$$(a + b)/2 = 25 + (b + c)/2$$

$$\frac{a + b}{2} - \frac{b + c}{2} = 25$$

$$\frac{a + b - b - c}{2} = 25$$

$$a - c = 50$$