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Average Quiz 7

Directions: Kindly study the following Questions carefully and choose the right answer:

1. The average age of 36 students in a group is 14 years. When teacher's age is included the average increases by one. What is the teacher's age ?

- A. 31 years B. 36 years C. 51 years
D. Can't be determined E. None of these

2. The average marks of a student in seven subjects was 75. His average marks in six subjects, excluding Maths, was 73. How many marks did he score in Maths ?

- A. 81 B. 84 C. 87 D. 91 E. None of these

3. The average age of X and Y is 33 years. If Z's age is added the average of their ages becomes 31 years. What is the age of Z ?

- A. 24 years B. 27 years C. 30 years D. 33 years E. None of these

4. The average age of 12 person is 32 years. If the age of one person is added, the average decreases by one year. What is the age of the new person ?

- A. 19 years B. 23 years C. 25 years D. 21 years E. None of these

5. The average weight of a class of 25 students is 37 kg. When the weight of the teacher is also included, the average weight increases by 1 kg. What is the weight of the teacher ?

- A. 65 kg B. 63 kg C. 54 kg D. 58 kg E. None of these

6. The average of 5 numbers is 306.4. The average of the first two numbers is 431 and the average of the last two numbers is 214.5. What is the third number?

- A. 108 B. 52 C. 321
D. Can't be determined E. None of these

7. The sum of five numbers is 290. The average of the first two numbers is 48.5 and the average of last two numbers is 53.5. What is the third number?

- A. 72 B. 84 C. 96 D. 108 E. None of these

8. The sum of five numbers is 924. The average of first two numbers is 201.5 and the average of last two numbers is 196. What is the third number? marks increased by 2. How many subjects were there initially?

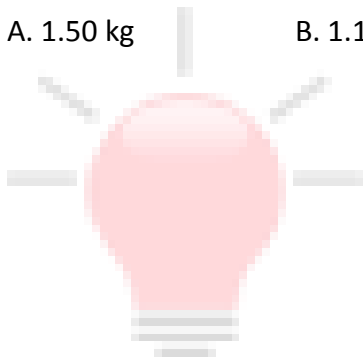
- A. 133 B. 129 C. 122
D. Can't be determined E. None of these

9. In a class, there are 32 boys and 28 girls. The average age of the boys in the class is 14 years and the average age of the girls in the class is 13 years. What is the average age of the whole class ? (rounded off to two digits after decimal)

- A. 13.50 B. 13.53 C. 12.51 D. 13.42 E. None of these

10. The average weight of 12 parcels is 1.8 kg. Addition of another new parcel reduces the average weight by 50 g. What is the weight of the new parcel?

- A. 1.50 kg B. 1.10 kg C. 1.15 kg D. 1.01 kg E. None of these



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Correct Answers:

1	2	3	4	5	6	7	8	9	10
C	C	B	A	B	E	E	B	B	C

Explanations:

1. Total age of 36 students = $14 \times 36 = 504$ years

Given that when teacher's age is included the average increases by one

\therefore Total age along with the teacher = $15 \times 37 = 555$ years

Now, the teacher's age = $555 - 504 = 51$ years

Hence, option (C) is correct.

2. Total marks in seven subjects = $7 \times 75 = 525$

Now, excluding Maths

\therefore Total marks in six subjects = $6 \times 73 = 438$

\therefore Marks in Maths = $525 - 438 = 87$

Hence, option (C) is correct.

3. Total age of X and Y = $2 \times 33 = 66$ years

Now, Z's age is added

\therefore Total age of X, Y and Z = $3 \times 31 = 93$ years

\therefore Z's age = $93 - 66 = 27$ years

Hence, option (B) is correct.

4. Total age of 12 persons = $12 \times 32 = 384$ years

Given that if the age of one person is added, the average decreases by one year

\therefore Total age of 13 persons = $13 \times 31 = 403$ years

Now, age of new person = $403 - 384 = 19$ years

Hence, option (A) is correct.

5. Total weight of 25 students = $37 \times 25 = 925$ kg

Given that when the weight of the teacher is also included, the average weight increases by 1 kg

\therefore Total weight along with the teacher = $38 \times 26 = 988$ kg

Now, the weight of the teacher = $988 - 925 = 63$ kg

Hence, option (B) is correct.

6. Third number = Total of five number – (Total of first two numbers + Total of last two numbers)
= $5 \times 306.4 - (2 \times 431 + 2 \times 214.5)$
= $1532 - (862 + 429)$
= $1532 - 1291 = 241$
Hence, option (E) is correct.

7. Third number = Total of five number – (Total of first two numbers + Total of last two numbers)
= $290 - (2 \times 48.5 + 2 \times 53.5)$
= $290 - (97 + 107)$
= $290 - 204 = 86$
Hence, option (E) is correct.

8. Third number = Total of five number – (Total of first two numbers + Total of last two numbers)
= $924 - (2 \times 201.5 + 2 \times 196)$
= $924 - (403 + 392)$
= $924 - 795 = 129$
Hence, option (B) is correct.

9. The average age of the boys = 14 years
The sum of ages of the boys = $14 \times 32 = 448$ years
The average age of the girls = 13 years
The sum of ages of the girls = $13 \times 28 = 364$ years
The sum of ages of the boys and the girls = $448 + 364 = 812$ years
Total students in the class = $32 + 28 = 60$
 \therefore Required average = $\frac{812}{60} = 13.53$ years
Hence, option (B) is correct.

10. Given, average weight of 12 parcels = 1.8 kg
 \therefore Total weight of 12 parcels = $12 \times 1.8 = 21.6$ kg
If addition of another new parcel reduces the average weight by 50 g.
 \therefore Average weight of 13 parcels = $1.8 \text{ kg} - 50 \text{ g} = 1.75$ kg
 \therefore Total weight of 13 parcels = $13 \times 1.75 = 22.75$ kg
Now, weight of the new parcel = $22.75 - 21.6 = 1.15$ kg
Hence, option C is correct.



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