

L2 : Average

1-Tut : Average Of Odd Numbers

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The average of all odd numbers between 20 and 30 is:

Options

This problem has only one correct answer

- 23
- 21
- 25
- 27

Correct Answer : C

Solution Description

Average of all odd numbers between 20 and 30 $= (21 + 23 + 25 + 27 + 29) / 5 = 125 / 5 = 25$.

2-Tut : Average Of Multiples

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Average of first 20 multiples of 4 is:

Options

This problem has only one correct answer

- 40
- 42
- 44
- 48

Correct Answer : B

3-Tut : Average Of Numbers

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The average of the following numbers: 1001, 1002, 1003, 1006, 1009

Options

This problem has only one correct answer

- 1004
- 1004.2
- 1004.8
- 1004.1

Correct Answer : B

Solution Description

Let's assume the average of the numbers is 1005.

Net average difference= $-4/5 = -0.8$

Hence, the required average= $1005 - 0.8 = 1004.2$

4-Tut : Average Of Numbers - 2

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The average of the following numbers: 1911, 1922, 1915, 1916, 1920

Options

This problem has only one correct answer

1916

1916.4

1916.8

1917

Correct Answer : C

Solution Description

lets the average of the numbers is 1915. Net average difference= $9/5 = +1.8$

Hence, the required average= $1915 + 1.8 = 1916.8$

5-Tut : Sachin And Average

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Sachin has an average of 90 after ten innings. If he scored 50 runs in the 11th inning then what is the average of Sachin after 11 innings?

Options

This problem has only one correct answer

86.36

85.47

87.87

None of these

Correct Answer : A

Solution Description

Average runs scored after 11th innings= $(90 \times 10 + 50) / (10 + 1) = 950 / 11 = 86.36$. Hence, option (a) is correct.

6-Tut : Manish And Average

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Manish average score in first five tests was 10. If after 6th test he scored 12 marks then what was his average after 6 tests?

Options

This problem has only one correct answer

10.36

10.33
17.87
None Of These

Correct Answer : B

Solution Description

Average score of Manish after six tests = $(10 \times 5 + 12) / (6) = 62 / 6 = 10.33$. Hence, option (b) is correct.

7-Tut : Average Of Prime Numbers

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The average of five distinct prime numbers is 6 if first four of them are one digit prime numbers then value of 5th prime number is:

Options

This problem has only one correct answer

11
13
17
19

Correct Answer : B

Solution Description

One digit prime numbers are 2, 3, 5, 7. Let the 5th prime numbers is x then according to the question: $(2 + 3 + 5 + 7 + x) / 5 = 6$

8-Tut : Student Weight

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When a student weighing 46 kgs left a class, the average weight of the remaining 59 students increased by 300g. What is the average weight of the remaining 59 students?

Options

This problem has only one correct answer

88
98
64
57

Correct Answer : C

Solution Description

Let the average weight of the 59 students be A.
Therefore, the total weight of the 59 of them will be 59A.

The questions states that when the weight of this student who left is added, the total weight of the class = $59A + 46$
When this student is also included, the average weight decreases by 0.3 kgs.

$$(59A + 46)/60 = A - 0.3$$

$$\Rightarrow 59A + 46 = 60A - 18$$

$$\Rightarrow 46 + 18 = 60A - 59A$$

$$\Rightarrow A = 64$$

9-Tut : Average Of Men Weight

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The average weight of 8 men on a rope bridge is increased by 2.5 kg, when one of the men, who weighs 69 kg, is replaced by a new man. Find the weight of the new man.

Options

This problem has only one correct answer

79

89

84

69

Correct Answer : B

Solution Description

The total increased average weight = $2.5 \times 8 = 20$ Kgs

When 69 kg man is replaced, his average weight will also increase by 2.5 kg which we have already included.

Now, the new weight due to addition of 8th man will be = $69 + 20 = 89$ kg

10-Tut : Average Honey

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The average honey collected by 19 bees of a beehive is 50 grams per day. If the queen bee's collection is added, the average collection becomes 47.5 grams. What is the queen bee's collection?

Options

This problem has only one correct answer

4 grams

0 grams

6 grams

None of these

Correct Answer : B

Solution Description

Let queen bee's collection be q grams;

$$((19 \times 50) + q) / 20 = 47.5;$$

Solving we get $q = 0$

11-Tut : Rahul And Average

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The average score of Rahul after 20 innings is 20 and in the 21st innings Rahul scores 83 runs. In the 22nd innings the minimum number of runs required to increase his average score by 2 than it was before the 22nd innings :

Options

This problem has only one correct answer

66

68

67

69

Correct Answer : C

Solution Description

The average score after 20th innings = 20

The average score after 21st innings = 23

Since $[(20 \times 20) + 83]/21 = 483/21 = 23$

Now requirement of runs = $25 + (21 \times 2) = 67$

Or $(25 \times 22) - (23 \times 21) = 67$

12-Tut : Persons And Hotels

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Nine persons went to a hotel for taking their meals. Eight of them spent Rs.15 each on their meals and the ninth spent Rs.8 more than the average expenditure of all the nine. What was the total money spent by them.

Options

This problem has only one correct answer

130

131

132

144

Correct Answer : D

Solution Description

Let the average expenditure of all the nine be RS.x

Then, $15 \times 8 + (x + 8) = 9x$

Therefore $x = 16$

Total money spent = $9x = \text{RS.}(9 \times 16) = \text{Rs.}144$

13-Tut : Student & Sections

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There are two sections A and B of a class, consisting of 40 and 48 students' respectively. If the average weight of section A is 50kg and that of section B is 45kg, find the average weight of the whole class.

Options

This problem has only one correct answer

45.25

46.26

47.27

48.28

Correct Answer : C

Solution Description

Total weight of (40+48) Students = $(40 \times 50 + 48 \times 45)$ kg = 4160kg

Therefore average weight of the whole class = $(4160/88)$ kg

Therefore average weight = 47.27kg

14-Tut : Students And Average

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In a class twenty five students are standing in a row the average weight of 1st 12 students is 14 kg. that of last twelve is 17 kg. If the average weight of all the 25 students is 18 kg. then find the weight of 13th student.

Options

This problem has only one correct answer

76 kg

77 kg

78 kg

80 kg

Correct Answer : C

Solution Description

Let the weight of 13th student be w kg.

Total weight of first 12 students = $12 \times 14 = 168$ kg.

Total weight of last 12 students = $12 \times 17 = 204$ kg.

Total weight of all the students = $168 + w + 204 = w + 372 = 25 \times 18 = 450$

$w = 450 - 372 = 78$ kg.

15-Tut : Average Weight Of Students

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The average weight of 35 students in a school 40 kg. If 5 students of average weight 100 kg. left the school then the new average of remaining students is:

Options

This problem has only one correct answer

35 kg

30 kg

40 kg

25 kg

Correct Answer : B