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1. A starts business with Rs. 35,000 and after 5 months, B joins with A as his
partner. After a year, the profit is divided in the ratio 2:3. What is B's
contribution in the capital?
A) Rs .7500
B) Rs. 8000
C) Rs. 8500
D) Rs. 9000
Answer: D
Explanation:
Ratio in which profit is to be divided = 2 : 3
Assume that B's contribution to the capital = b
\Rightarrow 3500 × 12 : b × 7 = 2 : 3
\Rightarrow 3500 × 12/7 b = 2/3
\Rightarrow b = (3500 × 12 × 3)/(2 × 7) = 500 × 6 × 3 = 9000
2. Anand and Deepak started a business investing Rs. 22,500 and Rs.35,000
respectively. Out of a total profit of Rs.13,800, Deepak's share is ____
A) Rs.5,400
B) Rs.7,200
C) Rs.8,400
D) Rs.9,400
Answer: A
Explanation:
Ratio of their investments = 22500 : 35000 = 9 : 14
So Deepak's share =
9
23
\times 13800 = Rs.5,400
3. Narasimha, Madhu and pavan started a business by investing Rs.1,20,000,
Rs.1,35,000 and Rs 1, 50,000 respectively. Find the share of Pavan, out of an
annual profit of Rs.56,700.
A) Rs.16,800
B) Rs.18,900
C) Rs.21,000
D) none
Answer: C
Explanation:
Ratio of their investments = 120000 : 135000 : 150000 = 8 : 9 : 10
Share of Pavan =
10
27
\times 56700 = 21,000
4. Out of four numbers ,the average of first three is 16 and that of the last three
        If the last number is 18, the first number is :
is 15.
A) 20
B) 21
C) 23
D) 25
Answer: B
Explanation:
Let the numbers be a,b,c,d
Given, a + b + c = 48, b + c + d = 45
Now, d = 18
thus, b + c + 18 = 45 \Rightarrow b + c = 27
Putting the value of b + c in a + b + c = 48
a + 27 = 48 \Rightarrow a = 21
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5. A batsman makes a score of 87 runs in the 17th inning and thus increases his
average by 3 . Find his average after 17th inning.
A) 39
B) 38
C) 38.5
D) 39.5
Answer: A
Explanation:
Consider the avg for first 16 innings is x.
Then total runs scored till 16 innings is 16x.
Total runs after 17 innings = 16x + 87.
Thus,
16
Х
87
17
Х
\Rightarrow x = 36
So his average after 17 innings = 39.
6. Three years ago , the average age of A, B and C was 27 years and that of B and C
5 years ago was 20 years. A's present age is :
A) 30 yrs
B) 35 yrs
C) 40 yrs
D) 48 yrs
Answer: C
Explanation:
Sum of the present ages of A, B and C = (27 \times 3 + 3 \times 3) years = 90 years.
Sum of the present ages of B and C = (20 \times 2 + 5 \times 2) years = 50 years.
A's present age = 90 - 50 = 40 years.
7. The average of six numbers is 30. If the average of first four is 25 and that of
last three is 35, the fourth number is :
A) 25
B) 30
C) 35
D) 40
Answer: A
Explanation:
Let the six numbers be, a, b, c, d, e, f.
a + b + c + d + e + f = 30 \times 6 = 180 - - - (1)
a + b + c + d = 25 \times 4 = 100 - - - (2)
d + e + f = 35 \times 3 = 105 - - - (3)
Add 2nd and 3rd equations and subtract 1st equation from this.
d = 25
8. A and B are partners in a business. A contributes 1/4 of the capital for 15
months and B received 2/3 of the profit . For how long B's money was used.
A) 6 months
B) 9 months
C) 10 months
D) 1 year
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Explanation:
B received 2/3 of the profit \RightarrowTheir profits ratio = A : B = 1 : 2
Let the total capital = 4 units
Then A's capital = 1
B's capital = 3
Assume B's money was used for b months
Then A : B = 1 \times 15 : 3 \times b = 1 : 2
\Rightarrow 15 : 3b = 1 : 2
⇒
15
3
b
=
1
2
\Rightarrow b = 10
9. At an election a candidate who gets 84% of the votes is elected by a majority
of 476 votes. What is the total number of votes polled?
A) 672
B) 700
C) 749
D) 848
Answer: B
Explanation:
Let the total votes are 100x. Then winning candidate got 84x, and losing candidate
got 16x.
\Rightarrow 84x - 16 x = 476
\Rightarrow 68 x = 476
\Rightarrow x = 7
Total votes are 700.
10. A man buys a cycle for Rs.1400 and sells it at loss of 15%. What is the
selling price of the cycle?
A) Rs.1090
B) Rs.1160
C) Rs.1202
D) Rs.1190
Answer: D
Explanation:
S.P = 85\% \text{ of } Rs.1400 \Rightarrow Rs.(
85
100
\times 1400) = Rs.1190.
11. A shopkeeper purchased 70 kg of potatoes for Rs.420 and sold the whole lot at
the rate of Rs 6.50 per kg .What will be his gain percent?
A) 4 1/6 %
B) 6 1/4 %
C) 8 1/3 %
D) 20%
Answer: C
Explanation:
Price per 1 kg =
420
70
= Rs.6.
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Answer: C

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Profit per 1 kg = Rs.6.5 - Rs.6 = Rs.0.5
Profit for 70 kg = 0.5 \times 70 = Rs.35
Gain % =
35
420
  \times 100= 8.33% = 8 1/3
12. By selling 300 apples a seller gains the selling price of 60 apples. The gain
percent of the seller is
A) 200
B) 20%
C) 25%
D) 16 2/3%
Answer: C
Explanation:
We know that SP - CP = Profit
⇒300SP - 300CP = 60SP
⇒240SP = 300CP
S
Ρ
С
Ρ
300
240
 =
5
4
Let SP = 5, and CP = 4
So profit percentage =
4
×
100
25
%
13. The average monthly salary of 8 workers and one supervisor in a factory was
430. When the supervisor, whose salary was
870 per month, retired, a new person was appointed and then the average salary of 9
people was
400 per month. The salary of the new supervisor is:
A. $700
B. $600
C. $430
D. $400
Answer: B
Explanation:
Total salary of 8 workers and supervisor together = 9 \times 430 = 3870
Now total salary of 8 workers = 3870 - 870 = 3000
Total salary of 9 workers including the new supervisor = 9 \times 400 = 3600
Salary of the new supervisor = 3600 - 3000 = 600
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14. The average of the first five prime numbers greater than 20 is:
A. 32.20
B. 31.00
C. 31.01
D. 32.00
Answer: A
Explanation:
Required prime numbers are 23, 29, 31, 37, 4.
Average will be (23 + 29 + 31 + 37 + 41)/5 = 32.20
15. The average score of 35 students in a class is 37. If every student is given 3
grace marks, the new average of the class is:
A. 45
B. 34
C. 43
D. 40
E. None of these
Answer: D
Explanation:
Average score = 37
Grace mark 3 is given to 35 student then its average will be 3.
Hence new average = 37 + 3 = 40
16. The average age of a group of 10 students is 14 years. If 5 more students join
the group, the average age rises by 1 year. The average age of the new students is:
A. 15 years
B. 17 years
C. 16 years
D. 18 years
E. None of these
Answer: D
Explanation:
Total age of the 10 students = 10 \times 14 = 140
Total age of 15 students including the newly joined 5 students = 15 \times 15 = 225
Total age of the new students = 225 - 140 = 85
Average age = 85/5 = 17 years
17. It rained as much as on Wednesday as on all the other days of the week
combined. If the average rainfall for the whole week was 3 cms, How much did it
rain on Wednesday?
A. 3 cms
B. 10.5 cms
C. 15 cms
D. 2.62 cms
E. 4.5 cms
Answer: B
Explanation:
Let the rainfall on wednesday = 6x.
\therefore Rainfall on the remaining days = 6x
Given,
(6x + 6x)/7 = 3
\Rightarrow12x = 21
\Rightarrow 6x = 10.5
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