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 = $923 \times 13800 = Rs.5,400$
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 : 10Share of Pavan =  $1027 \times 56700 = 21,000$ 

- 4. Out of four numbers ,the average of first three is 16 and that of the last three is 15. If the last number is 18,the first number is :
- 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

$$a + 27 = 48 \Rightarrow a = 21$$

- 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.

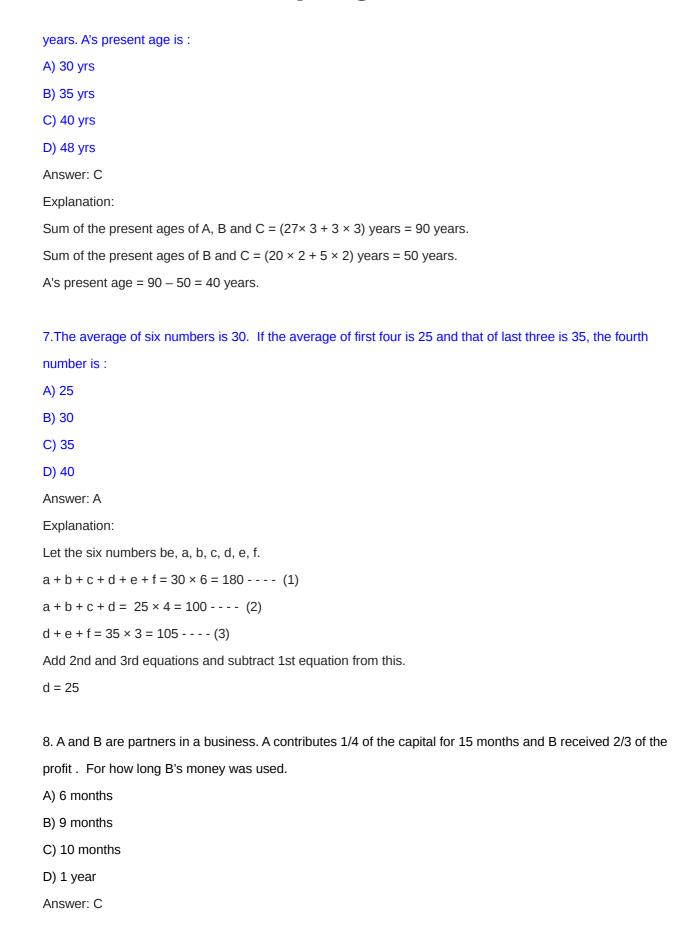
Then total runs scored till 16 innings is 16x.

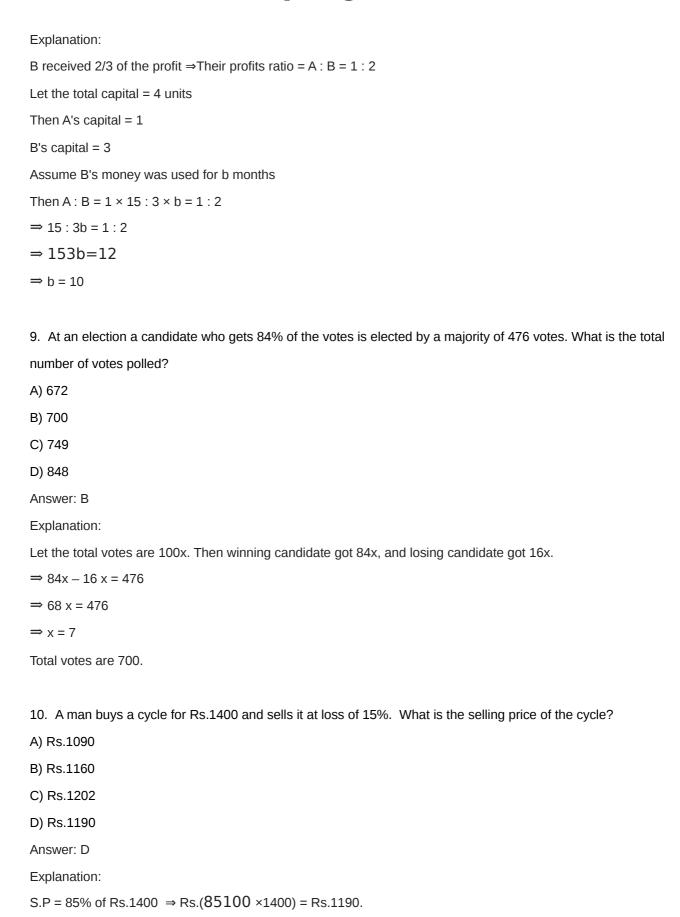
Total runs after 17 innings = 16x + 87.

Thus,  $16x+8717=x+3 \Rightarrow x=36$ 

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





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 = $42070$ = Rs.6.
Profit per 1 kg = Rs.6.5 – Rs.6 = Rs.0.5
Profit for 70 kg = $0.5 \times 70 = \text{Rs.}35$
Gain % = 35420 × 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
⇒ SPCP=300240 = 54
Let SP = 5, and CP = 4
So profit percentage = $14 \times 100 = 25\%$
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

