Q1. Subtracting 6% of x from x is equivalent to multiplying x by how much?
[Level 1, Wipro]

a. 0.094 b. 0.94 c. 9.4 d. 94
Ans: b
Solution:
x – 6% of x = 94% of x = 0.94x

Q2. What will be the actual profit percentage (rounded off to the nearest integer) after selling an article at a certain price, while there occurs a loss of 45% on selling the article at 3/8 of the selling price?
[level 2, Accenture]

1) 17% 2) 37% 3) 47% 4) 27%
Ans: 3
Solution
Let the cost price be INR 100.
Loss = 45% of cost price = INR 45
Selling price = cost price – loss = 100 – 45 = INR 55
As the product is sold at 3/8 of the selling price,
Original selling price = 8/3 of 55 = INR 440/3
Actual profit percentage = (440/3 - 100)100/100 = 47%.

Q3. A certain sum of money amounts to Rs. 704 in 2 years and Rs. 800 in 5 years. Find the principal.
[Level 2, Infosys]

A.580 B.600 C.660 D.640
Ans: D
Solution:
Interest earned in 3 years = 800 – 704 = 96
Interest earned in 1 year = 32
Interest earned in 2 years = 64
Principal = 704 – 64 = 640

Q4. If A:B = 2:3, B:C = 4:5 and C:D = 6:7, then find the value of A: B:C: D [Level 2, Accenture]
A. 15:24:30:35 B. 16:24:30:35 C. 17:24:30:35 D. 18:24:30:35
Ans: B
**Solution:**
A : B : C = 2 x 4 : 3 x 4 : 5 x 3 [Equating B]
A : B : C : D = 2 x 4 x 2 : 3 x 4 x 2 : 5 x 3 x 2 : 7 x 5 [Equating C]
= 16: 24: 30: 35

Q5. Amit and Sumit start walking from the same point in opposite directions at speeds of 6 km/hr and 4 km/hr, respectively. How far will they be from each other after 4 hours?
[level 2, Accenture]

1) 500 m 2) 35 km 3) 40 km 4) 300 m
Ans: 3
Solution

Amit and Sumit start walking from the same point in opposite directions at speeds of 6 km/hr and 4 km/hr, respectively.
Their relative speed = 6 + 4 = 10 km/hr
So, in 4 hours, they will travel = 4 × 10 = 40 km
Hence, the correct answer is 40 km.

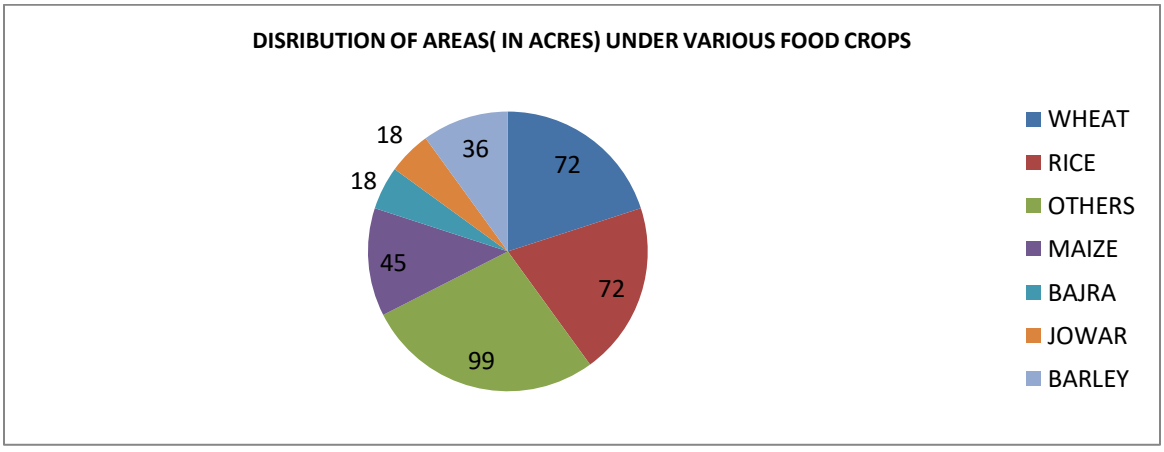
Q6. Two trains A and B start running at 80 km/hr and 82 km/hr towards each other from two different stations. They meet after 1 hour and 30 minutes. How far were they from each other when they started?
[level 2, Wirpo. TechM]

1) 190 km 2) 262 km 3) 243 km 4) 224 km
Ans: 3
Solution
Relative speed = 80 + 82 = 162 km/hr
Time taken = 1 hr 30 minutes = 3/2 hr
Distance = 162 × (3/2) = 243 km

Q7. Two trains with a speed of 80 km/hr and 120 km/hr, respectively, are 500 km apart and face each other. Find the distance between them 10 minutes before crossing. [Level 2, Wipro]

1) 72.33 km 2) 33.33 km 3) 63.33 km 4) 52.74 km
Ans: 3
Solution
Relative speed = 80 + 120 = 200 km/hr
Time = 10 minutes = 1/6 hour
The distance to be covered in 10 minutes = 200/6 km = 33.33 km

**Q8: Directions: The following pie chart shows distribution of land (in a village) under various food crops. Study the pie chart and answer the questions that follow. [Level 2, Capegemini, Wipro]**




**ALL VALUES GIVEN IN DEGREE**

Which combination of three crops contribute to 50% of the total area under the food crops?

a) wheat, barley, jowar b) rice, wheat, jowar

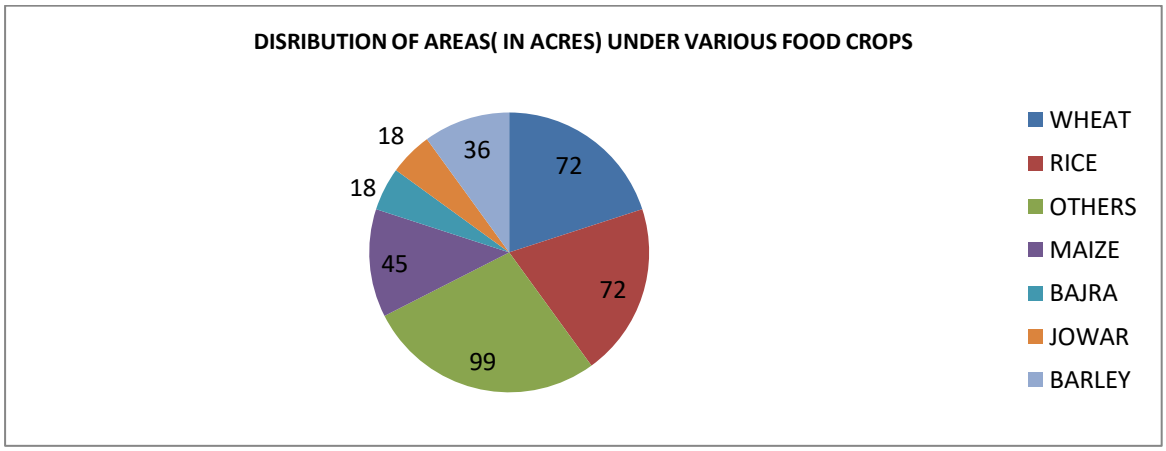
c) Ric, wheat, barley d) Bajra, maize, rice

Ans: D

Solution:

Sum of the portion of three crops should be greater than 180°.

**Q9: Directions: The following pie chart shows distribution of land (in a village) under various food crops. Study the pie chart and answer the questions that follow. [Level 2, Capegemini, Wipro]**




**ALL VALUES GIVEN IN DEGREE**

If the total are under jowar was 1.5 million acres then what was the area(in million acres)under rice?

a)6 b)7.5 c)9 d)4.5

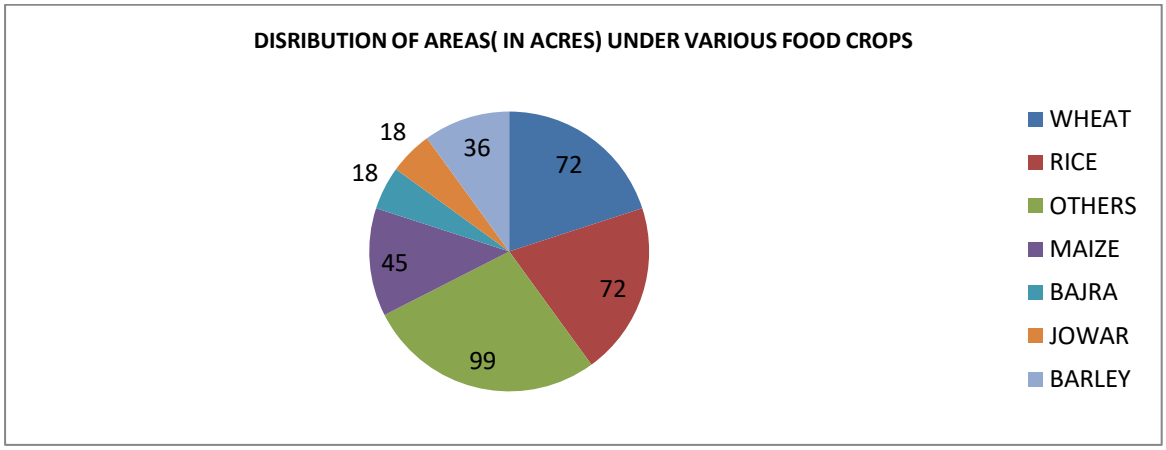
Ans: A

Solution:

Put 18° = 1.5 million

Rice = 72° = 1.5 x 4 = 6

**Q10: Directions: The following pie chart shows distribution of land (in a village) under various food crops. Study the pie chart and answer the questions that follow. [Level 2, Capegemini, Wipro]**




**ALL VALUES GIVEN IN DEGREE**

If the production of wheat is 6 times that of barley, then what is the ratio between the yield per acre of wheat and barley?

a) 3:2 b) 3:1 c) 12:1 d) 2:3

Ans: B

Solution:

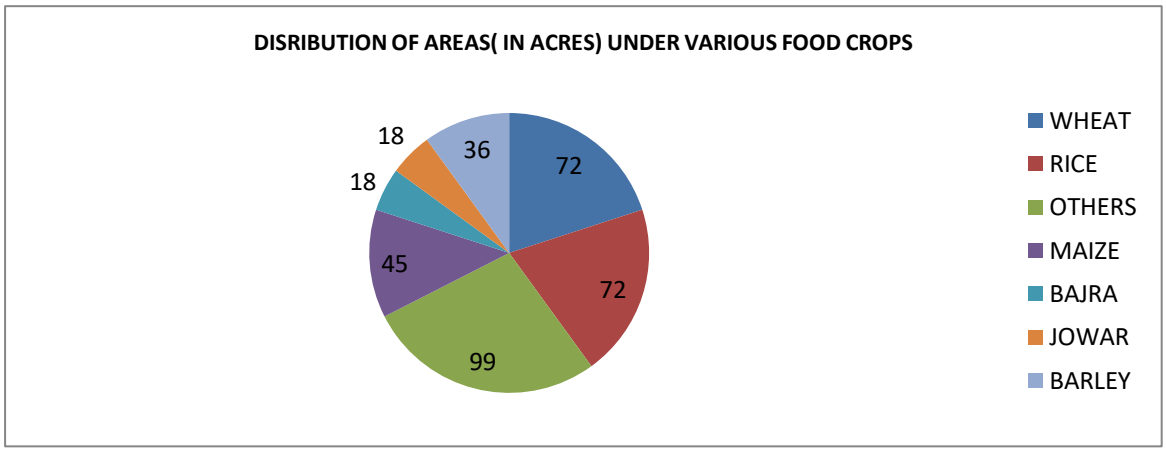
Formula Used: Yield per acre = Production/Area

**Calculation:**

Yield per acre of wheat / Yield per acre of barley = (Production of wheat/ Production of barley) x (Area of barley/ Production of wheat)

= (6/1) x (1/2) = 3: 1.

**Q11: Directions: The following pie chart shows distribution of land (in a village) under various food crops. Study the pie chart and answer the questions that follow. [Level 2, Capegemini, Wipro]**




**ALL VALUES GIVEN IN DEGREE**

If the yield per acre of rice was 50% more than that of barley, then the production of barley is what percent of that of rice?

a)30% b)33.33% c)25% d)36%

Ans: B

Solution:

Let total area be A million acres.

$$\text{Area under rice} = \frac{72^\circ}{360^\circ} \times A = \frac{A}{5}$$

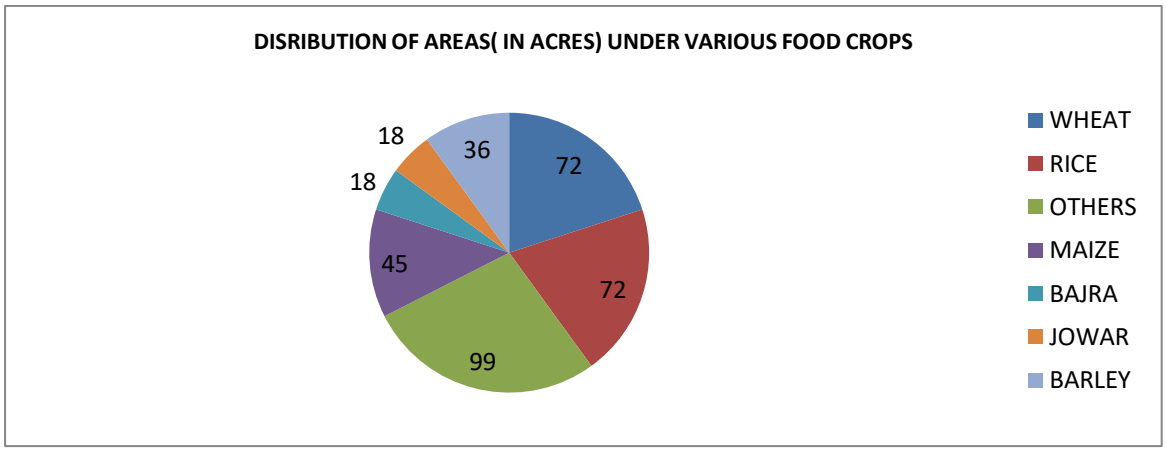
$$\text{Area under barley} = \frac{36^\circ}{360^\circ} \times A = \frac{A}{10}$$

According to the question the yields of barley and rice per acre are k and 1.5k tons respectively.

Required percentage

$$= \left[\frac{\frac{A}{10} \times x}{\frac{A}{5} \times 1.5x}\right] \times 100 = \frac{100}{3}\% = 33.3\%.$$

**Q12: Directions: The following pie chart shows distribution of land (in a village) under various food crops. Study the pie chart and answer the questions that follow. [Level 2, Capegemini, Wipro]**




**ALL VALUES GIVEN IN DEGREE**

If the total area goes up by 5%, and the area under wheat production goes up by 12%, then what will be the angle for wheat in the new pie chart?

a)$62.4^0$ b)$76.8^0$ c)$80.6^0$ d)$84.2^0$

Ans: B

Solution:

$$\text{Central angle corresponding to wheat in the new pie-chart} = \frac{\text{Area under wheat (new)}}{\text{Total area (new)}} \times 360^\circ$$

Q13. 70 litres of a mixture of milk and water contains 20% water. How much water should be added so that the mixture has 28% water? [Level 2, Accenture]

A. 50/9 litre B. 60/9 litre C. 70/9 litre D. 100/9 litre

Ans: C

Solution: Quantity of milk remains constant

72% of (x + 70) = 80% of 70

Q14. The sum of the squares of three numbers is 175, what will be the sum of squares of the twice of the numbers? [Level 1, Accenture]

A. 175 B. 350 C. 700 D. None of these

Ans: C

Solution:

$A^2 + B^2 + C^2 = 175$

$(2A)^2 + (2B)^2 + (2C)^2 = 4(A^2 + B^2 + C^2) = 600$

Q15. Bucket P has thrice the capacity as bucket Q. It takes 60 turns for bucket P to fill the empty drum. How many turns it will take for both the buckets P and Q, having each turn together to fill the empty drum? [Level 2, Accenture]

A. 30 B. 40 C. 45 D. 90

Ans: C

Solution:

P = 3 litre

Q = 1 litre

Volume of drum = 60 x 3 = 180

Required time = 180/(3+1) = 45