



Bar diagram & Pie chart Questions for SSC-CGL PDF

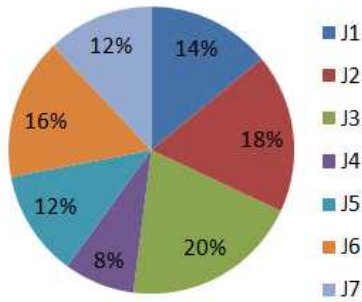
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Instructions

For the following questions answer them individually

Question 1

The pie chart given below shows the time taken in 7 different procedures J1, J2, J3, J4, J5, J6 and J7 in making a car as a percentage of total time taken. The total time taken in making one car is 1200 hours.



What will be the total taken in procedures J2 and J5?

- A 396 hours
- B 240 hours
- C 312 hours
- D 360 hours

Answer: D

Explanation:

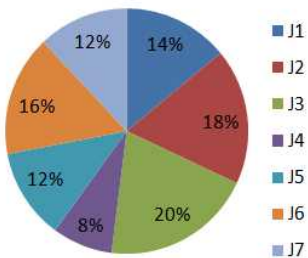
Percentage of time taken in J2 = 18%

Percentage of time taken in J5 = 12%

Total time taken = $12+18 = 30\%$ of 1200 = 360 hours

Question 2

The pie chart given below shows the time taken in 7 different procedures J1, J2, J3, J4, J5, J6 and J7 in making a car as a percentage of total time taken. The total time taken in making one car is 1200 hours.



What is the difference between the time taken in processes J1 and J4?

- A 96 hours
- B 72 hours
- C 60 hours
- D 84 hours

Answer: B

Explanation:

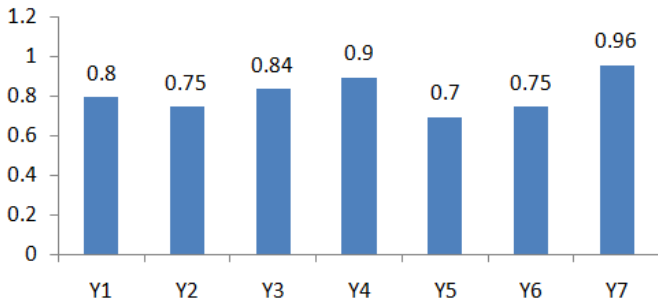
Percentage of time required for J1 = 14%

Percentage of time required for J4 = 8%

Required difference = $14-8 = 6\%$ of 1200 = 72 hours

Question 3

The bar chart given below shows the ratio of expenditure to revenue for seven consecutive years Y1, Y2, Y3, Y4, Y5, Y6 and Y7.



The profit percentage is lowest for which year?

- A Y4
- B Y7
- C Cannot be determined
- D Y3

Answer: B

Explanation:

We know that profit = Revenue - Expenditure

Expenditure : Revenue for Y1 = 0.8 = $\frac{80}{100}$

Let Expenditure = 80x, Revenue = 100x

Then, Profit = $100x - 80x = 20x$

Profit percentage = $\frac{20x}{100x} \times 100 = 20\%$

For Y2,

Profit percentage = $\frac{100 - 75}{100} \times 100 = 25\%$

For Y3,

Profit percentage = $\frac{100 - 84}{100} \times 100 = 16\%$

For Y4,

Profit percentage = $\frac{100 - 90}{100} \times 100 = 10\%$

For Y5,

Profit percentage = $\frac{100 - 70}{100} \times 100 = 30\%$

For Y6,

Profit percentage = $\frac{100 - 75}{100} \times 100 = 25\%$

For Y7,

Profit percentage = $\frac{100 - 96}{100} \times 100 = 4\%$

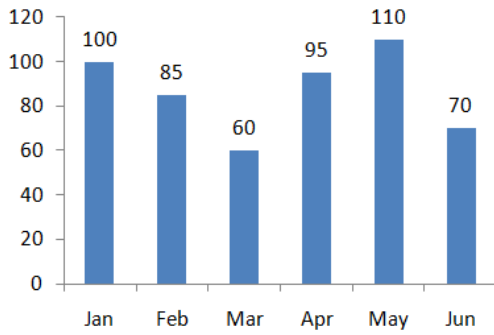
Hence, The profit percentage is the lowest for Y7

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Question 4

The bar graph shows the number of cars sold by a distributor in each month from January to June. How many more cars did he sell in the second quarter as compared to the first?

Number of Cars Sold



- A 20
- B 25
- C 10
- D 30

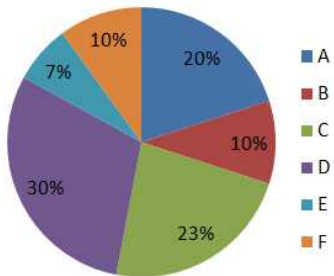
Answer: D

Explanation:

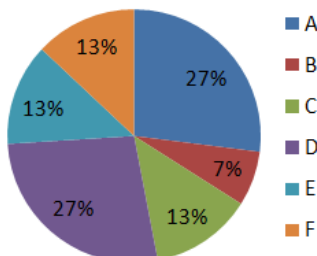
Number of cars sold in first quarter = $100+85+60 = 245$
Number of cars sold in second quarter = $95+110+70 = 275$
Therefore, 30 more cars sold in second quarter than first quarter.

Question 5

DISTRIBUTION OF SALES IN 2017



DISTRIBUTION OF SALES IN 2018



The pie charts shows the percentage market share of different companies in the market for the year 2017 and 2018. The total sale increased from 150 crores to 225 crores during 2017 to 2018. What is the ratio of sales of Company D in the year 2018 to its sales in the year 2017?

- A 16 : 21
- B 21 : 16

C 27 : 20

D 20 : 27

Answer: C

Explanation:

27

Sales of D in 2018 = 100×225

30

Sales of D in 2017 = 100×150

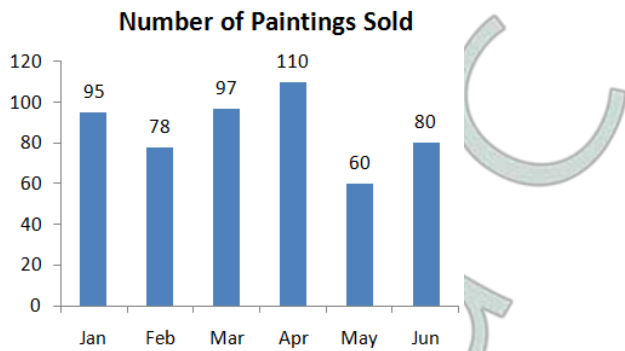
27

30

Then, Required ratio = $100 \times 225 : 100 \times 150 = 27 : 20$

Question 6

The bar graph shows the number of paintings sold by an art gallery in each month from January to June. How many paintings does it need to sell in July for the 7 month average to be 90?



A 115

B 85

C 90

D 110

Answer: D

Explanation:

Let the number of paintings to be sold in July = x

$$95 + 78 + 97 + 110 + 60 + 80 + x$$

Given, $\frac{\quad}{7} = 90$

$$\Rightarrow 520 + x = 630$$

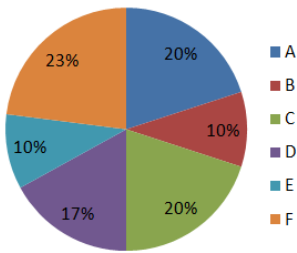
$$\Rightarrow x = 110$$

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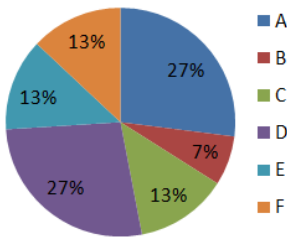
Question 7

The pie charts show the market share of companies in the rice market in 2017 and 2018. The value of sales of Company A in 2017 was ₹40 lakhs. If its sales grew by 25% in 2018, what was approximate value of sales of company B in 2018?

DISTRIBUTION OF SALES IN 2017



DISTRIBUTION OF SALES IN 2018



A ₹12.56 lakhs

B ₹13.96 lakhs

C ₹12.96 lakhs

D ₹13.56 lakhs

Answer: C

Explanation:

Value of sales of Company A in 2017 = Rs.40 lakhs

Value of sales of Company A in 2018 = 125% of Rs.40 lakhs = Rs.50 lakhs which is 27% of sales of all companies

27% → Rs.50 lakhs

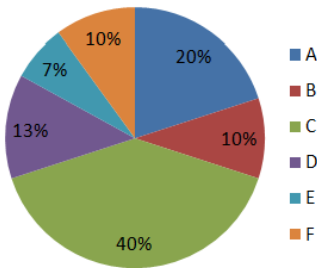
$$7 \times 50$$

7% → $\frac{7}{27} \times 50 = 12.96$ lakhs

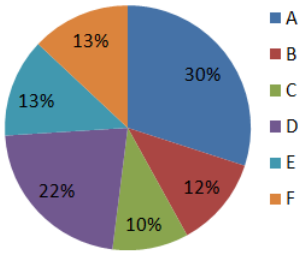
Question 8

The pie charts show the market share of the companies in the detergent market in 2017 and 2018. The total size of the market has decreased from ₹ 300 crores to ₹ 200 crores. What is the decrease in the sales of Company F?

DISTRIBUTION OF SALES IN 2017



DISTRIBUTION OF SALES IN 2018



- A $14\frac{1}{3}\%$
- B $12\frac{1}{3}\%$
- C $33\frac{1}{3}\%$
- D $13\frac{1}{3}\%$

Answer: D

Explanation:

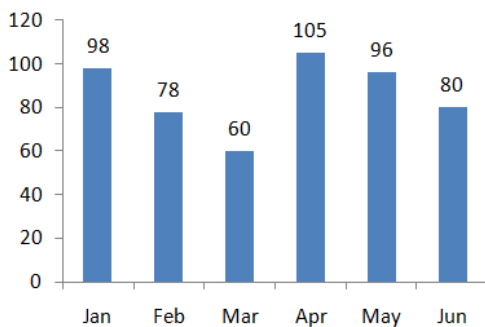
Sales of Company F in 2017 = 10% of Rs.300 crore = Rs.30 crore
 Sales of Company F in 2018 = 13% of Rs.200 crore = Rs.26 crore

$$\text{Decrease in sales} = \frac{30 - 26}{30} \times 100 = \frac{4}{30} \times 100 = 13\frac{1}{3}\%$$

Question 9

The bar graph shows the number of cycles sold by a distributor in each month from January to June. What is the increase in the number of cycles sold in April as compared to March?

Number of Cycles Sold



- A 75%
- B 78%

C 68%

D 70%

Answer: A

Explanation:

Number of cycles sold in March = 60

Number of cycles sold in April = 105

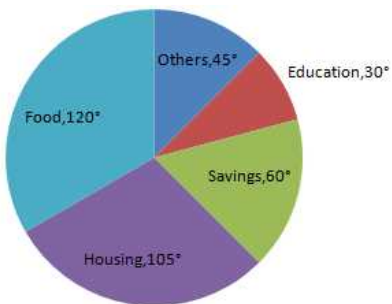
$$\text{Percentage Increase in number of cycles} = \frac{105 - 60}{60} \times 100 = \frac{45}{60} \times 100 = 75\%$$

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Question 10

Study the chart and answer the question based, on the pie chart.

The pie chart given below shows expenditures incurred by a family on various items and savings in a month. Savings of the family is ₹ 8,000 in a month.



The ratio of the expenditure on food to the savings is:

A 2:1

B 3:4

C 3:2

D 4:3

Answer: A

Explanation:

The angle subtended by food at the center is 120 degrees and by savings is 60 degrees

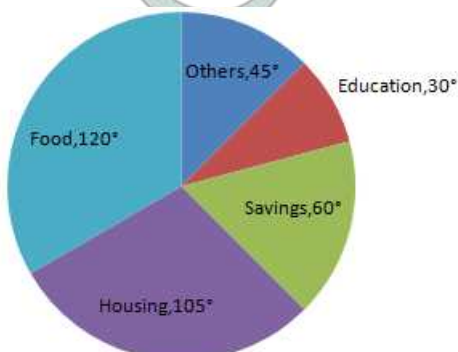
Therefore required ratio = $120/60$

= 2:1

Question 11

Study the chart and answer the question based, on the pie chart.

The pie chart given below shows expenditures incurred by a family on various items and savings in a month. Savings of the family is ₹ 8,000 in a month.



How much more amount is spent on food than on housing?

- A ₹2,000
- B ₹3,000
- C ₹1,000
- D ₹2,500

Answer: A

Explanation:

let x be total income

Given $(60/360) \cdot x = 8000$

$x = 48000$

difference between food and housing is $120 - 105 = 15$ degrees

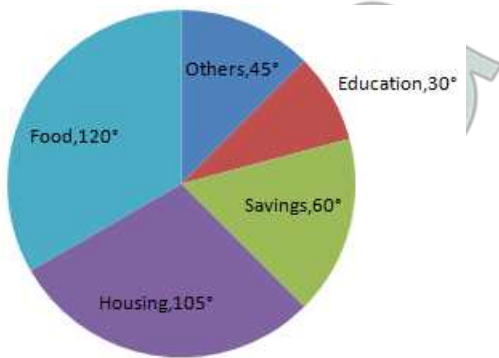
60 degrees = 8000

15 degrees = 2000

Question 12

Study the chart and answer the question based, on the pie chart.

The pie chart given below shows expenditures incurred by a family on various items and savings in a month. Savings of the family is ₹ 8,000 in a month.



What is the total expenditure of the family for the month?

- A ₹45,000
- B ₹48,000
- C ₹50,000
- D ₹40,000

Answer: D

Explanation:

Given 60 degrees = Rs 8000

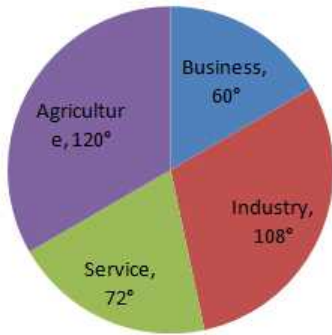
360 degrees = Rs 48000

Total expenditure = Rs 48000

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Question 13

DIRECTION: The population of a city is 8000. They have various types of occupation which is given below by the pie-chart. Study the pie-chart and answer the given questions.



The ratio of people working in service to industry sectors respectively:

- A 2:3
- B 3:5
- C 3:4
- D 5:3

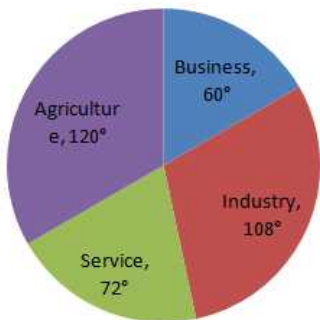
Answer: A

Explanation:

Total share of service sector=72 degrees
Total share of industry sector=108 degrees
Ratio=2:3

Question 14

DIRECTION: The population of a city is 8000. They have various types of occupation which is given below by the pie-chart. Study the pie-chart and answer the given questions.



How much population percent is less in industry sector than in agriculture sector?

- A 10%
- B 25%
- C 15%
- D 20%

Answer: A

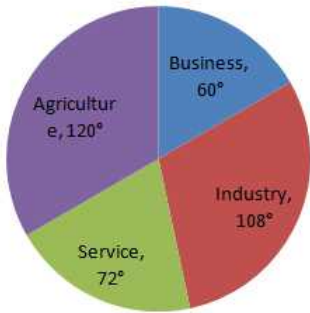
Explanation:

The share of industry sector=108 degrees
The share of agriculture sector=120 degrees
Percent greater= $\frac{(120-108)}{120} \times 100$

=10%

Question 15

DIRECTION:The population of a city is 8000. They have various types of occupation which is given below by the pie-chart. Study the pie-chart and answer the given questions.



How much percent are in service sector from the total population?

- A 36%
- B 20%
- C 72%
- D 25%

Answer: B

Explanation:

In service sector 72 degrees of share i.e
 $360 \text{ degrees} = 100$
 $72 \text{ degrees} = 72 * 100 / 360$
 $= 20\%$

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