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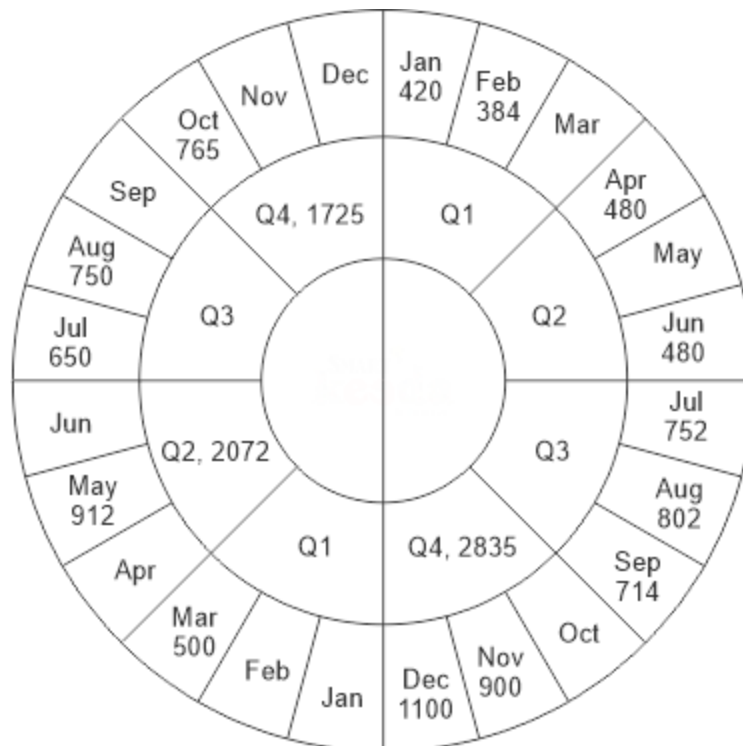
DI Pie Chart Questions for SBI PO Mains, IBPS PO Mains and RBI Grade B Exams.

DI Pie Chart No 58

Directions: Study the following pie chart carefully and answer the questions given beside.

The multi-layered pie-chart below shows the sales of refrigerator for a big retail electronics outlet during 2015 and 2016. The outer layer shows the monthly sales during this period, with each label showing the month followed by sales figure of that month. For some months, the sales figures are not given in the chart. The middle-layer shows quarter wise aggregate sales figures (in some cases, aggregate quarter-wise sales numbers are not given next to the quarter). The innermost layer shows annual sales. Below some information regarding sale is given:

1. In January (2016), there was increase in sale of 60% and from January (2015) while in February (2016), there was decrease in sale of 25% from February (2015).
2. Sale in March (2015) was 79.2% of sale in March (2016) and ratio of sale in April (2015) to sale in April (2016) was 6 : 7.
3. Sale in Q2 of 2016 was 312 more than sale in Q2 of 2015.
4. There was 20% increase in sale from August, 2016 to September, 2016.
5. Sale in November, 2016 was 60 less than twice the sale in December, 2016.



1. During which quarter, was the percentage increase in sale from previous quarter maximum in 2015?

- A. From Q1 to Q2 B. From Q2 to Q3 C. From Q3 to Q4 D. None of these E. Can't say

2. What was the total number of refrigerator sold in year 2016?

- A. 7418 B. 7687 C. 7542 D. 7557 E. 7627

3. In which month of 2015, was the maximum number of refrigerator sold?

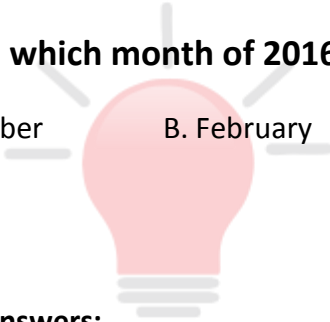
- A. May B. November C. August D. December E. July

4. In which quarter of 2016, was the percentage increase/decrease in sales from the same quarter of 2015 the highest?

- A. Q1 B. Q2 C. Q3 D. Q4 E. None of these

5. In which month of 2016, was the lowest number of refrigerators sold?

- A. December B. February C. March D. July E. September



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Correct Answers:

1	2	3	4	5
A	D	D	D	B

Common Explanation:

Sale in January (2016) = 160% of 420 = 672

Sale in February (2016) = 75% of 384 = 288

Sale in March (2015) = 79.2% of 500 = 396

Sale in Q1 of 2015 = 420 + 384 + 396 = 1200

Sale in Q1 of 2016 = 672 + 288 + 500 = 1460

Sale in April (2016) = $\frac{480}{6} \times 7 = 560$

Sale in June (2016) = 2072 - (560 + 912) = 600

Sale in Q2 of 2015 = 2072 - 312 = 1760

Sale in Q3 of 2015 = 752 + 802 + 714 = 2268

Sale in September (2016) = 120% of 750 = 900

Sale in Q3 of 2016 = 650 + 750 + 900 = 2300

Sale in November (2016) and December (2016) = 1725 - 765 = 960

Let, Sale in December (2016) be x

Sale in November (2016) = 2x - 60

So, $x + 2x - 60 = 960$

$3x = 1020$

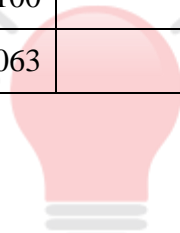
$x = 340$

Sale in December (2016) = 340

Sale in November (2016) = 620

Sale in October (2015) = 2835 - (900 + 1100) = 835

	2015		2016	
January	420	Q1, 1200	672	Q1, 1460
February	384		288	
March	396		500	
April	480	Q2, 1760	560	Q2, 2072
May	800		912	
June	480		600	
July	752	Q3, 2268	650	Q3, 2300
August	802		750	
September	714		900	
October	835	Q4, 2835	765	Q4, 1725
November	900		620	
December	1100		340	
Total	8063		7557	



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Answers :

1. From common explanation, we have

$$\text{From Q1 to Q2, percentage} = \frac{1760 - 1200}{1200} \times 100 = 46.67\%$$

$$\text{From Q2 to Q3, percentage} = \frac{2268 - 1760}{1760} \times 100 = 28.86\%$$

$$\text{From Q3 to Q4, percentage} = \frac{2835 - 2268}{2268} \times 100 = 25\%$$

Hence, option A is correct.

2. From common explanation, we have

$$\text{Total} = 1460 + 2072 + 2300 + 1725 = 7557$$

Hence, option D is correct.

3. From common explanation, we have

December is correct answer.

Hence, option D is correct.

4. From common explanation, we have

For Q1:

$$\text{Percentage} = \frac{1460 - 1200}{1200} = 21.67\%$$

For Q2:

$$\text{Percentage} = \frac{2072 - 1760}{1760} = 17.7\%$$

For Q3:

$$\text{Percentage} = \frac{2300 - 2268}{2268} \times 100 = 1.4\%$$

For Q4:

$$\text{Percentage} = \frac{2835 - 1725}{2835} \times 100 = 39.15\%$$

Hence, option D is correct.



5. From common explanation, we have

February is correct answer.

Hence, option B is correct.



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