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Date Interpretation Mixed Chart Questions Quiz for RBI Grade B, IBPSPO, SBIPO Exams.

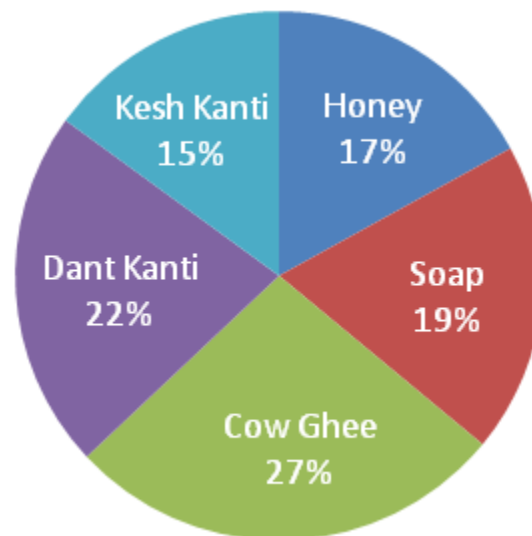
Data Interpretation Mixed Chart Quiz 18

Direction: Study the following table chart and pie chart carefully and answer the questions based on it.

The following table shows the sales figures of Patanjali (in Rs. million) for the period of 2012 to 2017

Months	2012-13	2013-14	2014-15	2015-16	2016-17
April	7.2	10.4	14.6	24.4	41.10
May	9.2	11.7	18.3	26.5	47.84
June	12.7	20.6	20.4	32.2	47.96
July	15.6	14.6	22.4	33.8	102.96
August	10.5	15.4	21.3	41.03	53.3
September	8.8	16.2	18.7	55.06	57.2
October	14.8	13.8	20.4	36.2	63.2
November	20.6	12.5	26.6	47.08	71.05
December	24.4	18.2	22.5	62.8	45.3
January	8.4	19.4	27.8	45.07	13.02
February	7.8	14.8	23.04	48.9	49.92
March	9.7	12.4	26.06	47.3	46.4

The following pie chart shows the contribution of different products to the sales figure 2016-17



1. For which month in 2016-17 was the annual growth rate for sales figures the highest with respect to corresponding month of 2012-13?

- A. September B. May C. February D. November E. July

2. If the profit margins, as percentage of sales, on Cow Ghee, Soap, Dant kanti and Kesh Kanti in 2016-17 are 23%, 16%, 25% and 20% respectively, which of these products contributed the maximum to the profit for the year 2016-17?

- A. Dant Kanti B. Kesh Kanti C. Cow Ghee D. Soap
E. Can't be determined

3. In which year was the growth rate sale in a month over that of the previous month the highest?

- A. 2012-13 B. 2013-14 C. 2014-15 D. 2015-16 E. 2016-17

4. If the profit margins, as percentage of sales, on Cow Ghee, Soap, Dant kanti and Kesh Kanti in 2013-14 are 18%, 12%, 22% and 16% respectively and sales from these products form 32%, 25%, 20% and 15% respectively, what is the approximate profit contributed by these products (in Rs. million)?

- A. 35 B. 28 C. 30 D. 25 E. 31

5. What would be the sale in January 2017-18, if we take the double of the percentage increase in the sale happened in 2016-17 in comparison to January 2012-13?

- A. Rs. 27.34 m B. Rs. 22.87 m C. Rs. 28.34 m D. Rs. 21.52 m E. Rs. 33.20 m

Correct Answers:

1	2	3	4	5
E	C	E	B	A

Explanations:

1. By just looking at the table we can observe that it is the month of July in which the highest growth sale happens.

$$\text{Reqd. Growth \%} = \frac{102.96 - 15.6}{15.6} \times 100 = \frac{87.36}{15.6} \times 100 = 560$$

Option E is hence the correct answer.

2. Let sales in 2016-17 be Rs. x

Profit contributed by Cow Ghee

$$\Rightarrow 27\% \text{ of } 23\% \text{ of } x = 0.0621x$$

Profit contributed by Soap

$$\Rightarrow 19\% \text{ of } 16\% \text{ of } x = 0.0304x$$

Profit contributed by Dant Kanti

$$\Rightarrow 22\% \text{ of } 25\% \text{ of } x = 0.055x$$

Profit contributed by Kesh Kanti

$$\Rightarrow 15\% \text{ of } 20\% \text{ of } x = 0.030x$$

Hence, Cow Ghee contributed the maximum.

Hence, option C is correct.

3. A close observation of the table, we get that it is the month of February 2016-17 in which the growth rate was maximum, ie. approximate 283%.

As per the given information,

$$\frac{49.92 - 13.02}{13.02} \times 100 = 283.41 \approx 283\%$$

Hence, option E is correct.

4. Sales for 2013-14 = Rs. 180 million

$$\text{Profit} = [(0.32 \times 0.18) + (0.25 \times 0.12) + (0.20 \times 0.22) + (0.15 \times 0.16)] \text{ of } 180$$

$$= [0.0576 + 0.03 + 0.044 + 0.024] \text{ of } 180$$

$$= 0.1556 \times 180 \approx 28 \text{ million}$$

Hence, option B is correct

5. Percentage increase in the month of January from 2012-13 to 2016-17

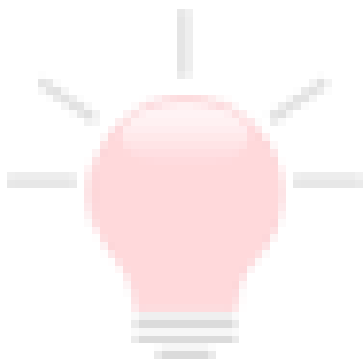
$$= \frac{13.02 - 8.4}{8.4} \times 100 = 55\%$$

Now, the effective percentage increase rate, as per the question

$$\Rightarrow 55 \times 2 = 110\%$$

Therefore, the sale in Jan, 2017-18 will be = $(100 + 110)\%$ of 13.02 = 210% of 13.02 = Rs. 27.34 million

Hence, option A is correct.



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