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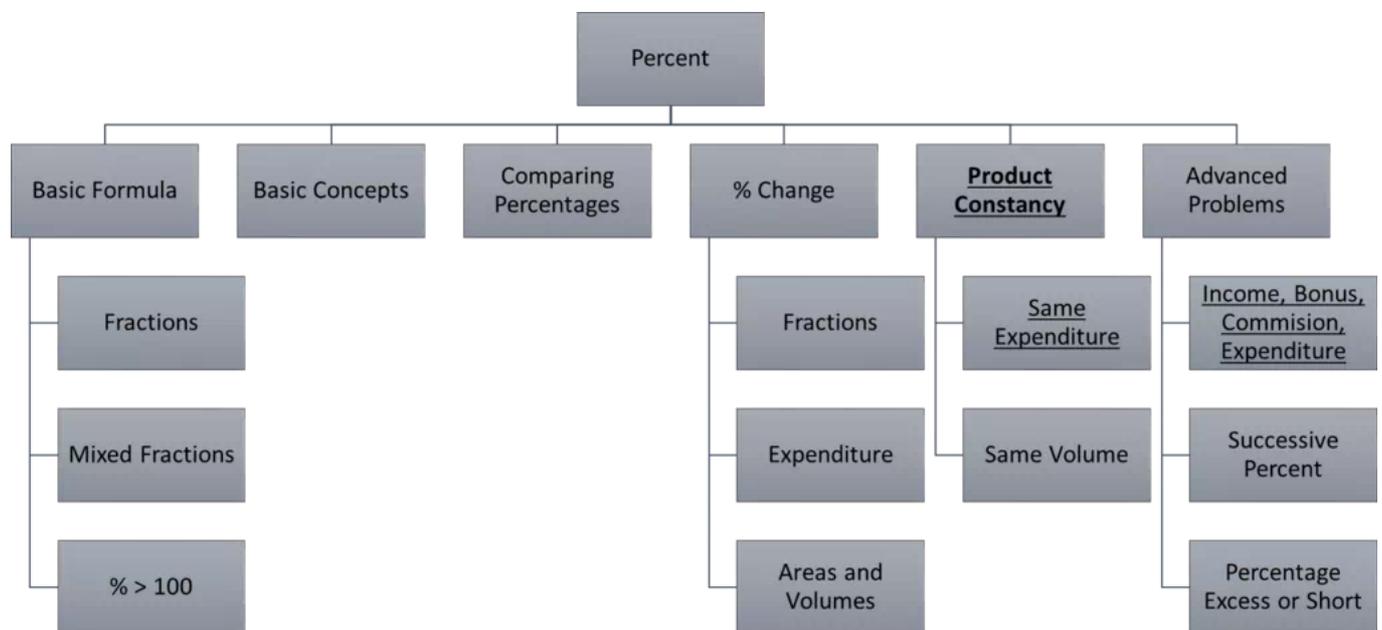
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# % Expenditure, Commission, Salary, & Bonus Problems YouTube Lecture Handouts

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Understanding Type of Percent

Find the % increase in savings required for the man to purchase a cycle in 8 months instead of 12.

50%

The price of sugar increases by 20%. Find % decrease in consumption to keep expenditure the same. What if expenditure is to be decreased by 10%?

$50/3 = 16.67\%$ , 25%

The price of rice increases by 30%. Due to this, a family use 40 kg less sugar at an expenditure increase of 10%. Find original consumption.

$y = 2, 260 \text{ kg}$

The price of sugar increases by 20%. Due to this, a family purchases 40 kg less sugar for Rs. 2000. Find original consumption, current consumption, original price, & current price.

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$$CC = 200 \text{ kg}, OC = 240 \text{ kg}, CP = 10 \text{ Rs.}, OP = 25/3 = 8.33 \text{ Rs.}$$

A reduction of Rs. 2 per kg enables a man to purchase 4 kg more sugar for Rs. 16. Find original price.

$$8/x = x - 2$$

A family consuming 25 kg rice and 9 kg wheat per month spends Rs. 350. The price of rice is 20% of the price of the wheat. If the price of wheat is increased by 20% then, find the % reduction in consumption of rice, to keep expenditure constant.

$$36\%$$

The cost of an apple is twice that of a banana and the cost of a banana is 25% less than that of guava. If the cost of each type of fruit increases by 10%, then find the percentage increase in the cost of 4 bananas, 2 apples, and 3 guavas.

$$10\%$$

A salesman is allowed 12% commission on the total sales made by him and a bonus of 3% on the sales over Rs. 20,000. If the total earning of a salesman is Rs. 7650. Find the total sales.

$$\text{Uniform commission} = 8250, \text{ Rs. Sales} = 55000$$

A company allows 5% commission up to the sales of Rs. 10000 and a commission of 4% on the sales over Rs. 10000. If salesman deposited Rs. 31100 after deducting his earning, find the total sales.

$$32,500 \text{ Rs.}$$

A man earns A% commission on first sale of Rs. 1000. On further sales, he earns B% commission. If in following 2 months his sales were Rs. 3000 and Rs. 4000 and his commissions were Rs. 900 and Rs. 1300 respectively, what is the value of A & B?

$$B=40\%, A=10\%$$

A man invests a part of Rs 10,000 at 5% and the remainder at 6%. The 5% investment yields Rs 76.50 more than the 6% investment annually. Find the amount invested at 5%.

$$x = 61.5, 6150 \text{ Rs}$$

In an examination 20% of the students failed In Math, 15% of the student, failed in English, 25% of the students failed in Hindi. If 5% of the students failed in Math and English, 10% of the students failed English and Hindi, 15% of the students failed in Math and Hindi, and 2% of the students failed in all the three subjects, then find the percentage of students who passed in all three subjects.

-Mayank