February 2, 2012

Get out your homework... Melon WS3

29) what % of 108 is 86?

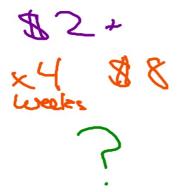$$\frac{P \cdot 108}{108} = \frac{86}{108}$$

$$P = 79.6\%$$

86 ÷ 108 =
0.796296296296296

2/2 - Percent Increase and Decrease

Which is the better deal?

1. Allowance went from $5 every week to $7 every week

$2 ↗

x4 $8
weeks

?

2. Allowance went from $22 every month to $26 every month

$4 ↗

?

"Percent increase" shows how much bigger a number is compared to the original.

$$\frac{\%}{100} = \frac{\text{amount of increase/decrease}}{\text{original amount}}$$

1. Allowance went from $5 every week to $7 every week

$$\frac{P}{100} = \frac{{}^{\times 2}2}{{}_{\times 0.5}5}$$

$$P = 40\% \text{ increase}$$

$$\frac{\%}{100} = \frac{\text{amount of increase/decrease}}{\text{original amount}}$$

2. Allowance went from $22 every month to $26 every month

$$\frac{P}{100} = \frac{4}{22}$$

$$\frac{22p}{22} = \frac{400}{22}$$

$$P = 18\% \text{ increase}$$

Which is a better sale?

1. from $24 to $18

$$\frac{P}{100} = \frac{6}{24}$$

$$P = 25\% \text{ decrease}$$

top is $\frac{1}{4}$ of the bottom

2. from $50 to $40

$$\frac{P}{100} = \frac{2 \cdot 10}{2 \cdot 50}$$

$$P = 20\% \text{ decrease}$$

$$\frac{\%}{100} = \frac{\text{amount of increase/decrease}}{\text{original amount}}$$

Find each percent change. Round to the nearest tenth of a percent. State if it is an increase or decrease.

From 56 to 30

$$\frac{P}{100} = \frac{26}{56}$$

$$\frac{56p}{56} = \frac{2600}{56}$$

$$P = 46.4\%$$

Decrease

2600 ÷ 56 = 46.4285714285714

From 54 to 79

$$\frac{79}{-54}$$
$$\frac{}{25}$$

$$\frac{P}{100} = \frac{25}{54}$$

$$\frac{54p}{54} = \frac{2500}{54}$$

$$P = 46.3\% \text{ inc.}$$

2500 ÷ 54 = 46.2962962962963

From 66 miles to 87 miles

$$\frac{P}{100} = \frac{21}{66}$$

$$\frac{66p}{66} = \frac{2100}{66}$$

$$p = 31.8\% \text{ Inc.}$$

2100 ÷ 66 = 31.8181818181818

From 62 inches to 22 inches

$$\frac{P}{100} = \frac{40}{62}$$

$$p = 64.5\% \text{ dec.}$$

Homework

Blue Percents WS4

Due Monday