Journal Entry:

What are some real life applications of scale and proportion? How are they useful? When doing your Scale Model project, how are you deciding the scale to use?

Aug 18-2:52 PM

Section 2-9
Percents

Student will be able to:
    solve percent problems using proportions
    solve percent problems using the percent equation

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Pete takes:

thiamine: .75 mg
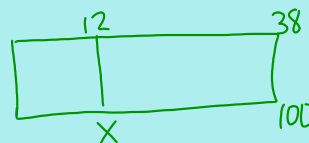
Mary takes: thiamine: 1.05 mg

Who takes the greater percent of their recommended intake?

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You can solve percent problems by using either proportions or the percent equation.

What percent of 38 is 12?

part:
base:

$$\frac{12}{X} \bowtie \frac{38}{100}$$

$$X = 31.6\% \quad \frac{38X}{38} = \frac{1200}{38}$$

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25 is what percent of 74?

$$\frac{25}{74} = \frac{X \cdot 74}{74}$$

$$.33.78 = X$$

$$33.78\%$$

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Solve the following:

1. What is 4 percent of 45?

$$X = 1.8 \quad X = .04(45) \quad \frac{X}{4} \bowtie \frac{45}{100}$$

2. 34 is what percent of 17?

$$\frac{34}{17} = X \cdot \frac{17}{17} \quad X = 200\%$$

3. 78 percent what number is 72?

$$\frac{72}{.78} = \frac{.78X}{.78} \quad X = 92.3$$

Oct 5-12:49 PM

Write a percent problem on your paper. Hand it behind you. Do your new problem. Return the papers, and correct them. Discuss if they are right or wrong.

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You are going to sell your bike. You get 60% less than what you paid for it 2 years ago, which was $125. How much did you sell it for?

$50

$125 \cdot .60 = 75$

$\begin{array}{r} 125 \\ -\underline{75} \\ \end{array}$ $50

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Simple Interest Formula:

$I = Prt$

I-interest
P-principal
r-rate
t-time in years

If you invest $120 at an interest rate of 3.2%, how much is it worth in 10 years?

$I = Prt$
$I = (120)(.032)(10)$
$I = \$38.40 + 120 = \$158.40$

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You deposit money into a savings account paying 4% simple interest per year. The first year, you earned $75 in interest. How much money is in your account at the end of the first year?

$1950

$75 = P(.04)(1)$
$\$1875 = P$
$\begin{array}{r} + 75 \\ \hline \end{array}$

Oct 5-12:56 PM

Which drink has the strongest caffeine concentration?

Mr.Meyer

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Hwk: pg. 141 - 143 #10, 14, 18, 22, 24, 32 - 52 evens

Oct 14-4:07 PM