Homework:

Review Worksheet 6

Homework

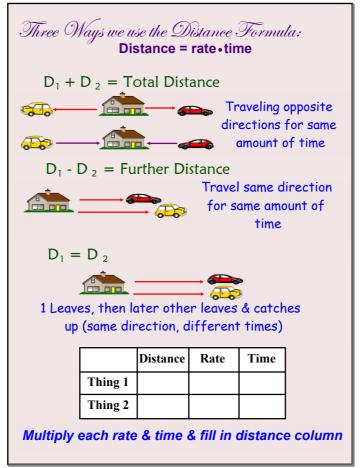
Tupe of Story Problems:

- A. Direct Variation used when "x" & "y"
 both increase or decrease $\frac{x_1}{x_2} = \frac{y_1}{y_2}$
- **B. Indirect Variation -** used when "x" increases $\frac{x_1}{x_2} = \frac{y_2}{y_1}$
- C. Percent formula used when finding the % of a number

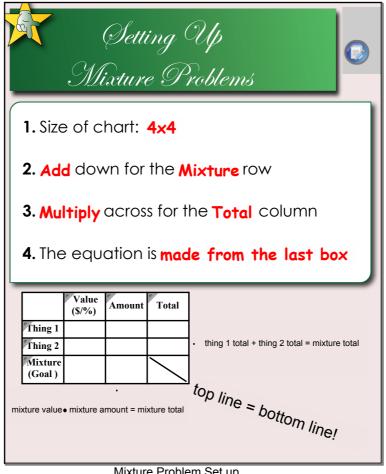
of(%) = is -OR-
$$\frac{is}{of} = \frac{\%}{100}$$

- D. Percent of Change used when price increases or decreases
 Original ± Original(%) = New
- E. Simple Interest used when investing money

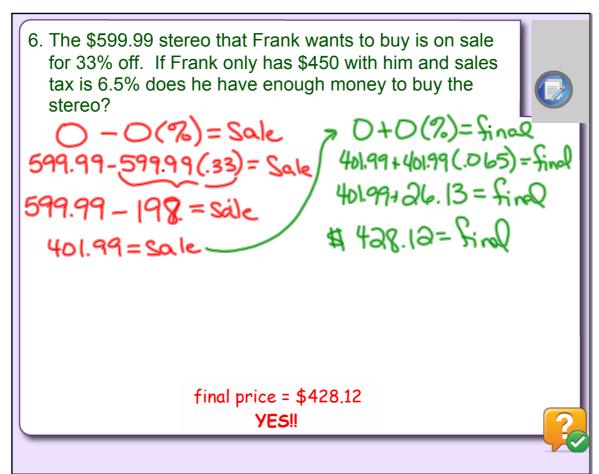
 Interest = principle rate time



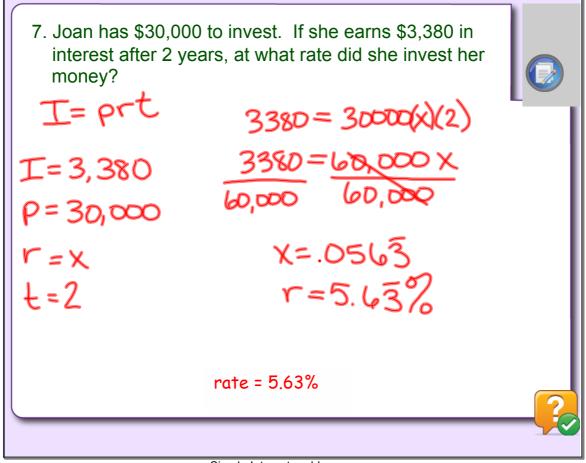
Distance Set Up

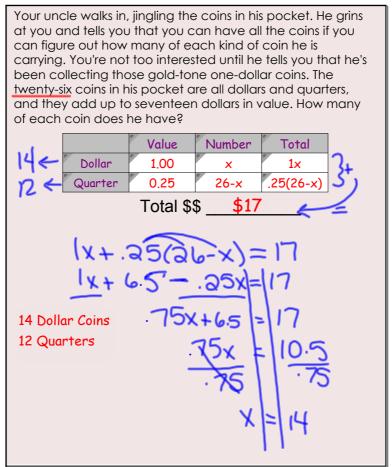


Mixture Problem Set up



Percent of Change Problem





#13 Coin Problem

Jamie left home on his bicycle for a long-distance ride. Merci left 3 hours later on her motorcycle carrying his lunch. Merci traveled at 42 mph and caught up to Jamie in 1.5 hours. How fast was Jamie traveling?

	Distance	Rate	Time
Jamie	4.5x	×	4.5 (3+1.5)
Merci	63 (42*1,5)	42	1.5

Which type of Distance problem is this?

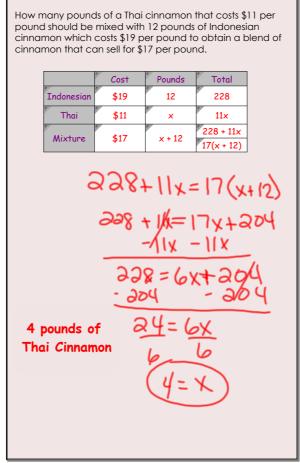
$$D_1 + D_2 = Total Distance$$

$$D_1 - D_2 =$$
 Further Distance

$$D_1 = D_2$$

Jamie is biking 14 mph

#14 Distance Problem



#15 Mixture Problem