

Unit 2: Percent

Lesson 2.4 - Percent of a Percent and Combined Percent

Concept

► we can multiply percents in situations where we have a percent of a percent
ex. 50% of 50%.

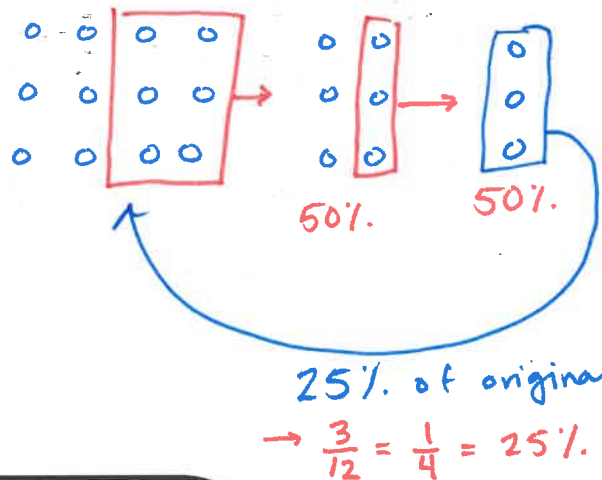
① Change % to decimals.
→ divide by 100
 $\frac{50\%}{100} = 0.5$

② Multiply decimals.
 $0.5 \times 0.5 = 0.25$

③ Change back to % (if needed)
→ multiply by 100
 $0.25 \times 100 = 25\%$

Visual

50% of 50% of \$12



Percent of a Percent

of → multiply.

Examples

10% of 50%.

$$0.1 \times 0.5 = 0.05 \rightarrow 5\%$$

30% of 10% of \$1000

$$0.3 \times 0.1 \times \$1000 = \$30$$

Word Problem

~~10%~~ Your monthly income is \$1500 and you spend 50% of it on rent and 10% of what is left on groceries. How much money is spent on groceries?

10% of 50% of \$1500

$$\rightarrow 0.1 \times 0.5 \times \$1500$$

= \$75 spent on groceries