

Set up a proportion and use percentage to find a part to whole relationship.

Goal

to use proportions and percents to find missing pie parts.

percent : 45%

part : 45
whole : 100

5-1

Cheesy mac : saturated fat - 3 grams
15% of daily value



method 1

$$\frac{15}{100} = \frac{3}{x}$$

Arrows indicate simplification: $\div 5$ from 15 to 3 and $\div 5$ from 100 to x.

$$100 \div 5 = 20$$

$$x = 20 \text{ grams}$$

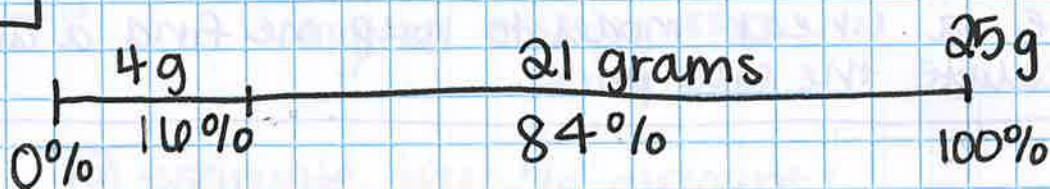
method 2

$$15\% \div 3g = 5\% \text{ per gram}$$

$$\frac{x \times 20}{100\%}$$

$$1g \times 20 = 20 \text{ grams}$$

5-4



$$16 \div 4 = 4\% \text{ per 1 gram}$$

$$100\% \div 4\% = 25$$

$$25 \times 1g = 25 \text{ grams}$$

5-9



$$a: 72$$

$$b: 50\%$$

$$c: 40\%$$

$$144 \div 4 = 36 + 36 = 72$$

$$36 \times 2 = 72$$

$$144 \div 2 = 72$$