

Percent Application Problems

$$\frac{\text{part}}{\text{whole}} = \frac{\%}{100}$$

No Spiral
this week!!

In the United States, 13 out of every 20 cans are recycled. What percent of cans are recycled?

$$\frac{\text{part}}{\text{whole}} = \frac{\%}{100}$$

$$\frac{13}{20} = \frac{x}{100}$$

$$\frac{20x}{20} = \frac{1300}{20}$$

$$x = 65\%$$

The local baseball stadium can hold 55,070 fans. If a game draws a crowd that is 80% of the stadium's capacity, how many stadium seats are filled?

$$\frac{x}{55,070} = \frac{80}{100}$$

$$44,056$$

$$\frac{100x}{100} = \frac{44,056,000}{100}$$

Monica completed typing 12 pages of her 20 page report. What percent of the report does she have remaining?

$$\frac{12}{20} = \frac{x}{100}$$

$$\frac{20x}{20} = \frac{1200}{20}$$

$$x = 60$$

$$40\%$$

The booster club gets 12% of the total sales during a fundraiser. If the booster club wants to earn \$1000, how much do their total sales need to be?

$$\frac{12}{100} = \frac{1000}{x}$$

$$8333.34 \quad 100,000 = 12x$$

$$8333.34$$

Your restaurant can seat 150 guests. If six tables of 6 are seated, what percent of the restaurant seating is full?

$$\frac{36}{150} = \frac{x}{100}$$

$$\frac{150x}{150} = \frac{3600}{150}$$

$$x = 24\%$$

40% of the people in your class wear glasses. If there are 30 people in your class, how many do not wear glasses?

$$\begin{array}{r} \times 60 \\ \hline 30 \end{array} \frac{100}{100}$$
$$\frac{100x}{100} = \frac{1800}{100}$$

18 people