

4 Percents

4.1 The Percent Equation

4.2 Percents of Increase and Decrease

4.3 Discounts and Markups

4.4 Simple Interest



75% Off ~~\$1~~ \$0.25

"Here's my sales strategy. I buy each dog bone for \$0.05."

I guess P.T. Barnum was right.

"Then I mark each one up to \$1. Then, I have a 75% off sale. Cool, huh?"

"Dear Vet: I have this strange feeling that I am wagging my tail 15% fewer times than I used to wag it."

"Oh look. He already answered me."

I think I'm clawing the furniture less. Who should I see?

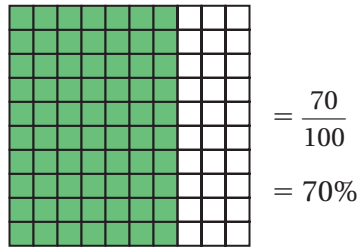
"Dear Newton, I only practice general vet work. I need to refer you to a dog tail specialist."

What You Learned Before

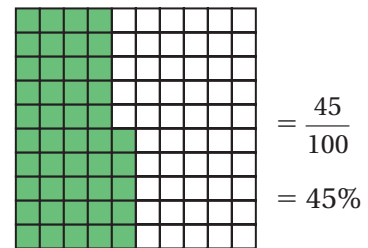
Writing Percents Using Models

What percent of the model is shaded?

Example 1



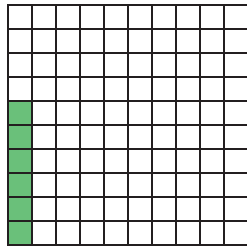
Example 2



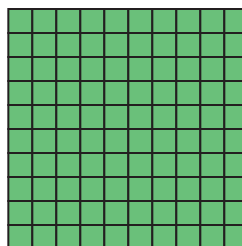
Try It Yourself

What percent of the model is shaded?

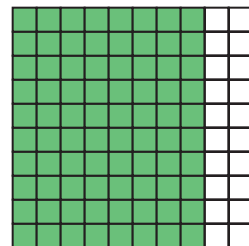
1.



2.



3.



Writing Decimals, Percents, and Fractions

Example 3 Write $\frac{3}{5}$ as a decimal.

$$\frac{3}{5} = \frac{3 \cdot 2}{5 \cdot 2} = \frac{6}{10} = 0.6$$

Example 4 Write $\frac{3}{5}$ as a percent.

$$\frac{3}{5} = \frac{3 \cdot 20}{5 \cdot 20} = \frac{60}{100} = 60\%$$

Multiply to make the denominator 100.

Try It Yourself

Copy and complete the table.

	Percent	Decimal	Fraction
4.	35%		
5.		0.6	
6.			$\frac{13}{25}$

	Percent	Decimal	Fraction
7.	10%		
8.		0.85	
9.			$\frac{1}{5}$

