

NAME: _____

Purpose

To use 1%, 10%, and 100% to find a percent of a number

Math Words

of $\frac{1}{2}$ **of** 8 is 4. 50% **of** 8 is 4.

one hundred percent

One hundred percent of 170 is 170.

ten percent

Ten percent of 170 is one tenth of 170, or 17.

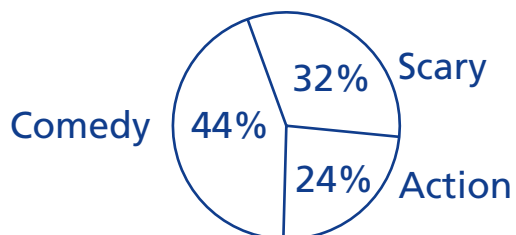
one percent

One percent of 170 is one hundredth of 170, or 1.7.

Starter Problem

Solve.

A survey of 250 students reported that 32% of the students like scary movies best. What is 32% of 250?

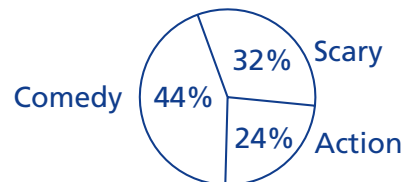


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Starter Problem

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Student Thinking



Antonio

I thought of 32% in parts: 10% plus 10% plus 10% plus 1% plus 1%. So, 32% of 250 is 25 plus 25 plus 25 plus 2.5 plus 2.5. It's 80 students all together. I could multiply to check.



100%	1	250
10%	$\frac{1}{10}$	25
1%	$\frac{1}{100}$	2.5



Linh

Since 32% means 32 hundredths, I changed 32% to 0.32 and multiplied. It's 12.5 students.

Pitfall

$$\begin{array}{r}
 250 \\
 \times 0.32 \\
 \hline
 500 \\
 750 \\
 \hline
 12.50
 \end{array}$$

Things to Remember

- * _____
- * _____



Our Turn

Solve. You may make a table to help you.

1. The box says that for one serving of crackers, 34% of the calories are from fat. If a serving has 200 calories, how many calories are from fat?
2. Carla recorded the color of 300 cars that drove down her street. She reported that 4% of the cars were red. How many red cars did Carla count?
3. 46% of 450 = _____

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Multiple Choice Mini Lesson

Fill in the circle next to the answer you choose.

1. 24% of 600 calories = _____ calories

☐ 144☐ 150☐ 360☐ 500

2. 90% of 1500 dollars = _____ dollars

☐ 135☐ 900☐ 1350☐ 1410

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Writing Task Mini Lesson

Explain how you know that 47% of 210 miles is 98.7 miles. You may make a table to help you explain.



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Explain how you know that 47% of 210 miles is 98.7 miles. You may make a table to help you explain.
