

### 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.

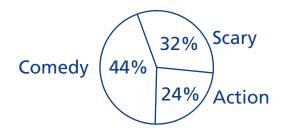
**ten percent** Ten percent of 170 is one tenth of 170, or 17.

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

#### Starter Problem.....

Solve.

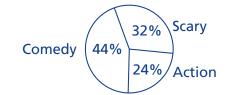
A survey of 250 students reported that 32% of the students like scary movies best. What is 32% of 250?



#### Starter Problem-

Solve.

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



## Student Thinking



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 plus 2.5. It's 80 students all together. I could multiply to check.



100%	١	250
10%	10	25
170	138	ζ.5



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



# Things to Remember

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*			



#### 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 = \_\_\_\_\_

### My Turn

Solve. You may make a table to help you.

1. A school library plans to order \$350 worth of books. They must pay an additional 16% for shipping. What is the shipping charge?

2. A new garden path has 500 square feet of tiles. The construction bill says 18% of the path used border tiles. How many square feet of border tiles were used?

3. 39% of 200 = \_\_\_\_\_

#### **Multiple Choice Mini Lesson**

Fill in the circle next to the answer you choose.

- 24% of 600 calories = \_\_\_\_\_ calories 1.
  - O 144
- O 150
- O 360
- O 500

- 90% of 1500 dollars = \_\_\_\_\_ dollars 2.
  - O 135
- O 900
- O 1350
- O 1410



### **Finding a Percent Mentally**

#### **Multiple Choice Mini Lesson**

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# **Finding a Percent Mentally**

STUDENT PAGE

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NAME:

#### **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.		