

NAME: \_\_\_\_\_



## Purpose

To compute a percent of a whole number

## Math Words

**less than  
100% of a  
number**

50% of 80 is less than 80.  $50\% \text{ of } 80 = 40$ .

**more than  
100% of a  
number**

150% of 80 is more than 80.  $150\% \text{ of } 80 = 120$ .

**equation**

$200\% \text{ of } 10 = 20$  is an equation. Both sides of the equals sign have the same value.

## Starter Problem

Solve. Think about the meaning.

The booster club estimated that they would sell 60 T-shirts. They sold 120% of their estimate. How many shirts did they sell?

$$120\% \text{ of } 60 = \underline{\hspace{2cm}}$$

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**Starter Problem**

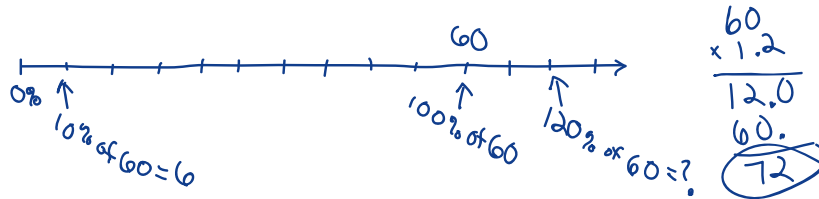
Solve. Think about the meaning.

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$$120\% \text{ of } 60 = \underline{\hspace{2cm}}$$

**Student Thinking****Beth**

I know 100% of 60 is 60, so 120% is more than 60 shirts. To find 120% of 60 I can multiply 1.2 times 60. They sold 72 shirts. I could also do it in my head.  $120\% = 100\% + 10\% + 10\%$ , so 120% of 60 is 72.

**Todd**

"Of" means multiply, so I changed 120% to 0.12 and multiplied times 60.



$$\begin{array}{r} 60 \\ \times 0.12 \\ \hline 1.20 \\ 60 \\ \hline 7.20 \end{array}$$

$$120\% \text{ of } 60 = \underline{7.2}$$

**Things to Remember**

- \* \_\_\_\_\_
- \* \_\_\_\_\_



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## Our Turn

Write the number that makes the equation true.

1.  $150\%$  of 60 = \_\_\_\_\_

2.  $105\%$  of 60 = \_\_\_\_\_

3.  $70\%$  of \$150 = \_\_\_\_\_

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## My Turn

Write the number that makes the equation true.

1.  $120\%$  of  $140 =$  \_\_\_\_\_

2.  $15\%$  of  $\$40 =$  \_\_\_\_\_

3.  $105\%$  of  $20 =$  \_\_\_\_\_

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**Multiple Choice Mini Lesson**

Fill in the circle next to the answer you choose.

1. 40% of 20 is \_\_\_\_\_

☐ 8☐ 10☐ 20☐ 800

2. 105% of 80 is \_\_\_\_\_

☐ 25☐ 12☐ 120☐ 84

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**Multiple Choice Mini Lesson**

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**Writing Task Mini Lesson**

Explain why it makes sense that 160% of \$90 is \$144. You may make a drawing to help you explain.

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**Writing Task Mini Lesson**

Explain why it makes sense that 160% of \$90 is \$144. You may make a drawing to help you explain.

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