Determine the Whole Given the Part and Percent

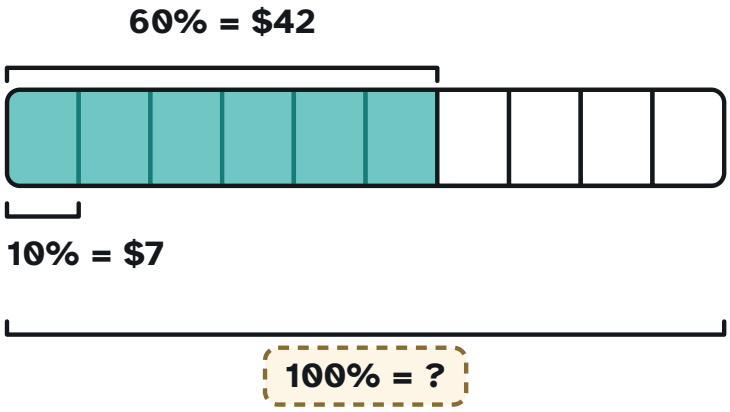
Find the whole when you know a part and its percent.

Name _____ **Date** _____

Tonight's spark

A sweater tag says $42 after a sale. The sign says $42 is 60% of the regular price. What was the regular price?

Make a guess first: is the regular price more or less than $42?



Our class model: the 10% stepping stone

Try it

Work it out on paper. Write one answer on each line.

1 **10% of a number is 5. What is 100% of that number?**

A. 15 **B.** 50 **C.** 0.5

My answer _____

2 **30 is 50% of a number. What is the number?**

A. 60 **B.** 15 **C.** 80 **D.** 30

My answer _____

3 **20 is 25% of a number. What is the number?**

A. 5 **B.** 45 **C.** 100 **D.** 80

My answer _____

4 **8 is 20% of the whole. What is 10% of the whole?**

A. 16 **B.** 2 **C.** 4

My answer _____

5 **A shirt on sale costs $30, which is 50% of the original price. What was the original price?**

A. $15 **B.** $60 **C.** $80 **D.** $30

My answer _____

6 **18 is 30% of a number. What is the number?**

A. 60 **B.** 5.4 **C.** 48 **D.** 540

My answer _____

Talk about it

When the whole is missing, why do we divide by the decimal percent instead of multiplying?

Home mission

Pick any price on a receipt. Say, "This is 50% of the full price." Can your student find the full price out loud? Then try 25%.

If we get stuck, ask

- Which amount is the part, and which is missing?
- What is that percent as a decimal?
- Should the whole be bigger or smaller than the part?

Do it on a screen

Scan or type the link. Same lesson, with hints.

eduwonderlab.com/lessons/4-5/homework.html

How did it feel? (optional)

Tricky Getting there Got it