Convert Measurement Units

Change one unit of measure into another by using a conversion factor.

Name _____ **Date** _____

Tonight's spark

A delivery driver says the cabinet is 5 feet tall. The order form asks for the height in inches. What number goes on the form?

Make a guess first: will the number on the form be bigger than 5, or smaller?

Feet	Inches
1	12
5	?

×5

Our class model: the conversion factor

Try it

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

1 **How many quarts are in 1 gallon?**

A. 2 **B.** 3 **C.** 4 **D.** 8

My answer _____

2 **Change 5 gallons to quarts.**

A. 9 **B.** 20 **C.** 1.25 **D.** 40

My answer _____

3 **Change 12 cups to pints. (1 pint = 2 cups)**

A. 24 **B.** 14 **C.** 10 **D.** 6

My answer _____

4 **A ribbon is 250 centimeters long. How many millimeters is that? (1 centimeter = 10 millimeters)**

A. 25 **B.** 260 **C.** 2,500 **D.** 25,000

My answer _____

5 **You change quarts to pints. 1 quart = 2 pints. Which is correct?**

A. Multiply, because pints are smaller **B.** Divide, because pints are smaller

C. Multiply, because pints are bigger **D.** Divide, because pints are bigger

My answer _____

6 **A bag weighs 80 ounces. How many pounds is that? (1 pound = 16 ounces)**

A. 64 **B.** 96 **C.** 1,280 **D.** 5

My answer _____

Talk about it

When did you multiply and when did you divide, and how did you decide?

Home mission

Measure a cabinet, shelf, or door with a tape measure. Say its height in feet. Ask your student for the inches. Then try 3 feet. Should the number be bigger or smaller than 3?

If we get stuck, ask

- Which unit is smaller?
- Should your answer be a bigger or smaller number?
- What is the conversion factor for these units?

Do it on a screen

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

eduwonderlab.com/lessons/3-10/homework.html

How did it feel? (optional)

Tricky Getting there Got it