Answers and talk notes

Convert Measurement Units

What your student is learning

Tonight we change one measurement unit into another, like feet into inches, using a conversion factor.

Answers

Ask your student to explain before you look.

1. **C.** 4. 1 gallon = 4 quarts is the conversion factor.
2. **B.** 20. 5 × 4 = 20, so 5 gallons = 20 quarts.
3. **D.** 6. 12 ÷ 2 = 6, so 12 cups = 6 pints.
4. **C.** 2,500. 250 × 10 = 2,500, so 250 centimeters = 2,500 millimeters.
5. **A.** Multiply, because pints are smaller. Multiply, because pints are smaller, so there are more pints than quarts.
6. **D.** 5. 80 ÷ 16 = 5, so 80 ounces = 5 pounds.

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?

When they are stuck, ask

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

Try not to say

- Always multiply when you convert.
- The units do not matter, just the number.
- Just look it up on your phone.