ALBERT

Name _____ Date _____

Converting Units of Measurement Worksheet

Grade 6 · Common Core 6.RP.A.3d

> Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.

Practice

Builds the skill step by step.

1. There are 12 inches in 1 foot. How many inches are in 5 feet?

2. There are 3 feet in 1 yard. How many yards are in 18 feet?

3. There are 100 centimeters in 1 meter. How many centimeters are in 4 meters?

4. There are 16 ounces in 1 pound. How many ounces are in 3 pounds?

   A. 19 ounces

   B. 13 ounces

   C. 48 ounces

   D. 5 ounces

5. There are 60 minutes in 1 hour. How many hours are 180 minutes?

6. There are 1,000 grams in 1 kilogram. How many grams are in 7 kilograms?

7. There are 4 quarts in 1 gallon. How many quarts are in 6 gallons?

8. There are 2 cups in 1 pint. How many pints are 10 cups?

   A. 20 pints

   B. 5 pints

   C. 12 pints

   D. 8 pints

9. There are 1,000 milliliters in 1 liter. How many liters are 3,000 milliliters?

10. Complete the ratio table: there are 3 feet in every yard. How many feet are in 4 yards?

Yards	**1**	**2**	**3**	**4**
Feet	3	6	9	?

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On Level

Grade-level practice.

1. A ribbon is 54 inches long. There are 12 inches in 1 foot. How long is the ribbon in feet?

2. A puppy weighs 72 ounces. There are 16 ounces in 1 pound. How much does the puppy weigh in pounds?

3. A race is 5 kilometers long. There are 1,000 meters in 1 kilometer. How many meters long is the race?

4. A recipe needs 3 quarts of broth. There are 4 cups in 1 quart. How many cups is that?

   A. $\frac{3}{4}$ cup

   B. 7 cups

   C. 12 cups

   D. 1 cup

5. A movie lasts 135 minutes. How long is it in hours?

6. A truck can carry 3 tons. There are 2,000 pounds in 1 ton. How many pounds can it carry?

7. A board is 2.5 meters long. How many centimeters is that?

8. Kendra walked 7,920 feet. There are 5,280 feet in 1 mile. How many miles did she walk?

9. A bottle holds 750 milliliters. How many liters is that?

   A. 0.75 liter

   B. 7.5 liters

   C. 75 liters

   D. 750,000 liters

10. A water cooler holds 5 gallons. There are 16 cups in 1 gallon. How many 1-cup servings does it hold?

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Challenge

Multi-step and word problems that stretch it.

1. A car travels 60 miles per hour. How many miles does it travel per minute?

2. Fencing costs $4 per foot. How much does 15 yards of fencing cost?

3. A runner's pace is 8 minutes per mile. How many seconds does it take her to run 1 mile?

4. Ella has 2 pounds of trail mix. She makes bags that hold 4 ounces each. How many bags can she fill?

5. Which length is the longest?

   A. 5 feet

   B. 70 inches

   C. 1.5 meters, which is about 59 inches

   D. 2 yards

6. A faucet leaks 2 cups of water per hour. There are 16 cups in a gallon. How many gallons does it leak in 1 day?

7. A rug is 9 feet long and 6 feet wide. What is its length and width in yards?

8. Noah says 3.5 kilometers is the same as 350 meters. What mistake did he make, and what is the correct length in meters?

9. Juice costs $2.40 per quart. What does 1 gallon of juice cost? (4 quarts = 1 gallon)

10. A plant grows 3 centimeters per week. How many millimeters does it grow in 4 weeks? (10 millimeters = 1 centimeter)