"I Can Solve Real-World Problems by Comparing Rates, Prices, and Units of Measurement."

Measurements and Ratios

You will receive a **Reference Sheet** on the NYS exam with the following conversions. Use these to convert the following measurements.

Grade 6 Mathematics Reference Sheet

CONVERSIONS

1. How many pounds is 35.5 kilograms?

1 inch = 2.54 centimeters	1 kilometer = 0.62 mile	1 cup = 8 fluid ounces
1 meter = 39.37 inches	1 pound = 16 ounces	1 pint = 2 cups
1 mile = 5,280 feet	1 pound = 0.454 kilogram	1 quart = 2 pints
1 mile = 1,760 yards	1 kilogram = 2.2 pounds	1 gallon = 4 quarts
1 mile = 1.609 kilometers	1 ton = 2,000 pounds	1 gallon = 3.785 liters
		1 liter = 0.264 gallon
		1 liter = 1,000 cubic centimeters

2. Jim ran 3.5 miles. How many kilometers

1. How many pounds is oo.o miograms:	is that?
3. Convert 36 inches to centimeters.	4. How many cups are in 8 quarts of milk?

Example

Is a rider 3 feet 10 inches tall allowed to ride this roller coaster?

Use 1 inch = 2.54 centimeters.



Got It?

One of the rails on the roller coaster needs to be replaced. The old rail is 250 centimeters long. The new piece is 8 feet long. Will the new piece fit? Use the conversion factor 1 inch = 2.54 centimeters.

Example

A bread recipe calls for 500 grams of flour. About how many pounds of flour do you need? Use 1 ounce \approx 28.4 grams.

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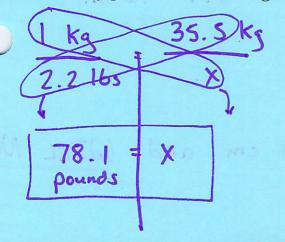
1 gallon = 4 quarts

1 gallon = 3.785 liters

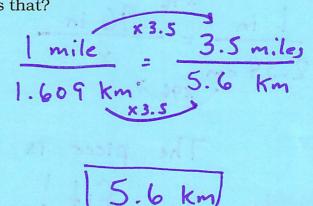
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1. How many pounds is 35.5 kilograms?

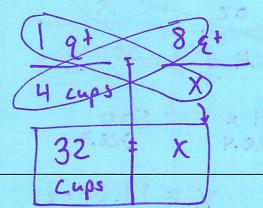


2. Jim ran 3.5 miles. How many kilometers is that?



3. Convert 36 inches to centimeters.

4. How many cups are in 8 quarts of milk?



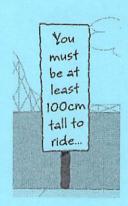
Example

Is a rider 3 feet 10 inches tall allowed to ride this roller coaster?

Use 1 inch = 2.54 centimeters.

3 ft 10 in = 46 in

8ft = 96 in



The rider is 116.8 cm tall and CAN ride the ride!

Got It?

One of the rails on the roller coaster needs to be replaced. The old rail is 250 centimeters long. The new piece is 8 feet long. Will the new piece fit? Use the conversion factor 1 inch = 2.54 centimeters.

The piece is 243.8 cm and WILL NOT

Example

A bread recipe calls for 500 grams of flour. About how many pounds of flour do you need? Use 1 ounce \approx 28.4 grams.

