

MasterMath

Converting Measures Between Systems

Name _____
Date _____

Conversions between Systems of Measure

When converting from Customary to Metric, use these approximations.

- | | |
|---------------------------|--------------------------|
| 1 inch = 2.54 centimeters | 1 cup = 0.24 liter |
| 1 foot = 0.305 meter | 1 gallon = 3.785 liters |
| 1 mile = 1.61 kilometers | 1 ounce = 28.35 grams |
| | 1 pound = 0.454 kilogram |

When converting from Metric to Customary, use these approximations.

- | | |
|--------------------------|---------------------------|
| 1 centimeter = 0.39 inch | 1 liter = 4.23 cups |
| 1 meter = 3.28 feet | 1 liter = 0.264 gallon |
| 1 kilometer = 0.62 mile | 1 gram = 0.0352 ounce |
| | 1 kilogram = 2.204 pounds |

1. **Please convert these measures**

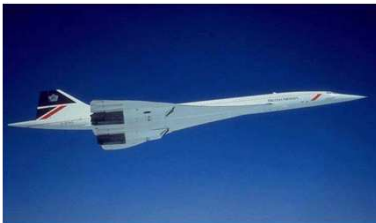
Customary	Metric
8 pounds	3.63
32.8'	10 meters
14"	35.56
6 gal.	22.71 liters
3 miles	4.83 km
50.76	12 liters

Customary	Metric
5 oz	141.75 grams
15 MPH	24.15 km/hour
32 MPG	13.61 km/liter
68'	20.74
13.22lbs.	6 kg
.5632oz	16 grams

2. **Which is greater. Place either a "<", or a ">", or a "=" between the**

metric		US
10 grams	<	.5 oz.
20 cm	>	1"
5 liters	>	20 cups
5 liters	>	1 gallon
12 km/hr	<	10 MPH

3. **Plane A is flying at an elevation of 21,000 feet. Plane B is flying at an elevation of 6200 meters. Which plan is higher?**



Plane A

4. **Can you pour all the water from a 4 liter bottle into a 1 gallon bottle?**

no

5. **You running at a speed of 2 meters per second. At that speed, how many feet**

393.6

6. **You weigh 86 lbs. How many kg. do you weigh?**

39

