

MasterMath

Converting Units of Measure

Name _____

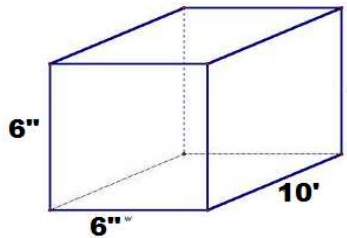
Date _____

1. Please make the following conversion

measure	convert to	conversion factor	answer
36 lbs	kg	1 lb = .454 kg	16.34
4 minutes	seconds		240
15 liters	gallons	1 liter = .264 gal	3.96
15 miles	km	1 m / 1.61 km	24.15
21 kg	lbs	1 lb = .454 kg (set up proportion)	46.26
2 years	weeks		104
5 meters	cm	100 cm / m	500

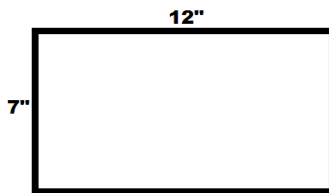
measure	convert to	conversion factor	answer
16 cm	feet	1 cm = .39 inches	6.24
5 cups	liters	1 c = .24 l	1.21
15 liters	gallons	1 liter = .264 gal	3.96
18 kg	lbs	1 kg = 2.204 lbs	39.67
16 liters	cups	1 l = 4.23 c	67.68
18 grams	ounces	1 g = .0352 oz	.634
53 feet	meters	1' = .305 m	16.17

2. What are the dimensions of this rectangular prism in centimeters? (1" = 2.54 cm)



base	height	depth
15.24	15.24	25.4

3. What is the area of this rectangle in sq. cm? (1" = 2.54 cm)



541.93

4. Your car's gas mileage is 28 miles per gallon. What is the gas mileage in kilometers per liter? (1 mile = 1.61 km; 1 gal = 3.785 liters)

11.91

5. You have a picture which you want to frame. The picture is 24" wide. You have a frame that is 58 cm wide. Will the picture fit in this frame? (1" = 2.54 cm)

no

6. Your room is 35' long. You have some carpet that you'd like to cover the floor with. The carpet is 12 yards long. Is the carpet long enough?

yes

7. Your friend is 5' 2" tall. You are 160 cm tall. Who is taller? (1" = 2.54 cm)

you

8. You need 2 lbs. of chocolate to make a batch of candy. You have 1 kg of chocolate. Can you make a batch of candy? (1lb = .454 kg)

yes