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	
4 minutes	seconds		
15 liters	gallons	1 liter = .264 gal	
15 miles	km	1 m / 1.61 km	
21 kg	lbs	1 lb = .454 kg (set up proportion)	
2 years	weeks		
5 meters	cm	100 cm / m	

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

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

6"

6"   10'
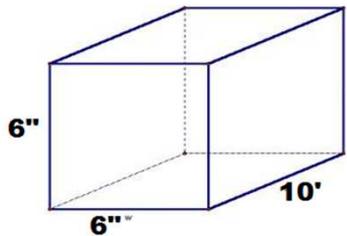
base	height	depth

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

12"

7"
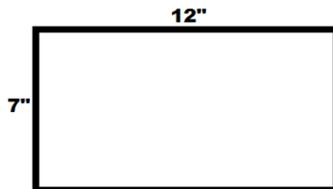
4.   **Your car's gas mileage is 28 miles per gallon. What is the gas mileage in kilometers per liter? (1 mile = 1.61 km; 1 gal = 3.785 liters)**

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)**

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?**

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

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)**