BECA / Huson / 10th gra	ade Geometry
4th Feb 2020	

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Subject: Manipulating equations.

[Hint #1: write out the relevant equation first, then solve for what you don't know.]

[Hint #2: it never hurts to draw a diagram!]

1. A circle has a circumference of 49 inches. What is its radius (to the nearest decimal place)?

- 2. A block of iron has dimensions 10cm x 20cm x 25cm, and has a mass of 39.3 kilograms.
  - a. What is its density in grams/cm<sup>3</sup>?

b. What is the mass of an iron cube of side 1m?

3.	A woman cycles from her home 16 miles north, and then 12 miles east.  a. How far has she cycled in total?
	b. How far is she from home if she went directly there (as the crow flies)?
4.	A soccer ball has volume of 5,575 cm³. How many can fit in a line on the ground in between goal posts that are 7.5 meters apart?  a. what is the formula to connecting volume and radius of a sphere?
	b. Now solve for r
	c. How many diameters can you fit into 7.5 meters?