

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 $5,575 \text{ cm}^3$. 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?