Unit 1: Segments, length, and area

16 Septemper 2022

## 1.7 Classwork: Unit conversion

1 inch = 2.54 centimeters1 pound = 16 ounces1 quart = 2 pints1 meter = 39.37 inches1 pound = 0.454 kilogram1 gallon = 4 quarts1 mile = 5280 feet1 kilogram = 2.2 pounds1 gallon = 3.785 liters1 mile = 1760 yards1 ton = 2000 pounds1 liter = 0.264 gallon1 mile = 1.609 kilometers1 cup = 8 fluid ounces1 liter = 1000 cubic centime1 kilometer = 0.62 mile1 pint = 2 cupsters

- 1. Use the table above to answer this question, How many...
  - (a) centimeters in an inch

(c) gallons in 1 liter

(b) feet in a mile

(d) pounds in a kilogram

Name:

- 2. Use your personal knowledge to answer, How many...
  - (a) years in a century

- (b) hours in a day
- 3. Multiply by the appropriate conversion factor (fraction) to calculate the equivalent measure. Show work, including units in numerator and denominator.

Example: Convert T = 72 hours to days.

$$T = 72 \text{ hours} \times \frac{1 \text{ day}}{24 \text{ hours}} = 3 \text{ days}$$

- (a) Find the length in feet of a board with L=48 inches.
- (b) Find the distance in miles of a race with D=10 kilometers.
- (c) Find the volume in gallons of a tank with V = 10 liters.