

1. Circle the larger/higher measurement in each pair:

(a) 5 in 5 cm

(b) 30° F 30° C

(c) 4 ft 1 m

(d) 4 l 1 gal

2. Circle the most REASONABLE measurement in each list:

(a) Temperature outside on a nice summer day:

-20°C 0°C 32°C

(b) The weight of a newly-hatched baby chick:

0.2 mg 20 g 0.2 kg 2 kg

(c) The height of our classroom:

2.1 cm 21 cm 2.1 m 21 m

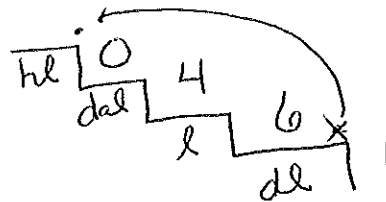
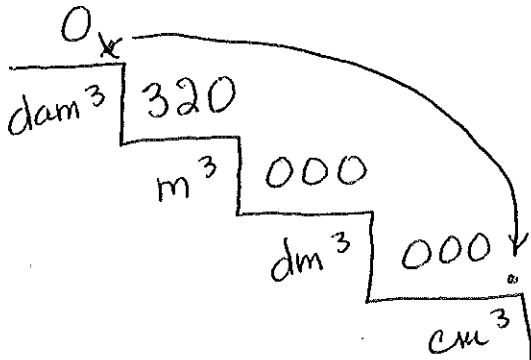
(d) Distance from SRU to Philadelphia:

600m 6000m 600km 6km

3. Convert as indicated; do not round. Show work as needed.

(a) 46.1 dl = 0.0461 hl

(b) 0.32 dam³ = 320,000,000 cm³



From Summary #1,
1 kg ≈ 3 cans of pop,
so a can of pop is
about 1/3 of a kg,
a little more than
.3 kg.
That makes .2 kg
heavier than
half a can of
pop.

1/2 1-2 zeros

no above

95/100

4. Use any meaningful method to perform each conversion below, rounding your answers to the nearest hundredth. Show work where possible.

~~15~~ (a) 6.4 liters = _____ pints, given that 2.113 pints = 1 liter

$$\frac{6.4 \text{ l}}{1 \text{ l}} = \frac{x \text{ pints}}{2.113 \text{ pints}}$$

$$13.52 \text{ pints}$$

$$13.52 = x$$

~~1~~ (b) 5.3 kl per square foot to homers per square yard, given that 1 homer = 220 l

$$\frac{5.3 \text{ kl}}{\text{ft}^2} \times \frac{3 \text{ ft}}{1 \text{ yd}} \times \frac{3 \text{ ft}}{1 \text{ yd}} \times \frac{1000 \text{ l}}{1 \text{ kl}} \times \frac{1 \text{ homer}}{220 \text{ l}} = 216.82 \text{ homers per sq. yd}$$

~~1~~ (c) \$75.83 per team-hour to man-minutes per penny, given that 1 team = 12 "men"

$$\frac{\$75.83}{\text{team} \cdot \text{hr}} \times \frac{1 \text{ team}}{12 \text{ men}} \times \frac{1 \text{ hr}}{60 \text{ min}} \times \frac{100^c}{1} \quad \text{FLIP}$$

$$12 \times 60$$

$$\div 75.83$$

$$\div 100$$

$$0.09 \frac{\text{man-min}}{\text{penny}}$$