Name Kevin

Date 3/6

- 1. Convert the larger metric units into smaller metric units.
 - a) Convert 3 meters to centimeters.

$$3 \text{ m} \times 100 = 100 \text{ cm}$$

Convert 0.9 meters to centimeters.

c) Convert 8.1 liters to milli-liters

d) Convert 0.537 liters to milli-liters.

Convert 90.5 kilometers to meters

Convert 0.234 km to meters.

g) Convert 6.4 kilograms to grams

- h) Convert 0.6 kilograms to grams
- 0.6 kg × 1.000 = 600 g
- i) Explain why converting from meters to centimeters uses a different conversion factor (x 100) than converting from liters to milliliters, kilometers to meters, and kilograms to grams (x 1000). Express the conversions (g) and (h) above using exponents.

A meter is 100 times greater thank a contineter, so you multiply by 100.

A liter is 1000 times greater than a milliliter and a Kilogram and Klometer are 1,000 times greater than a gram and meter,

2. Read each aloud as you write the equivalent measures.

b) 1.23 L=

c) 2.002 kg = d) 3 mL=

e) 3012 g =

0.021 m = 2.10 cm

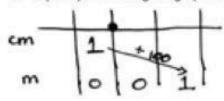


3. The length of the bar for a high jump competition must always be 4.75 m. Express this measurement in millimeters. Explain your thinking using an equation that includes an exponent,

$$+.75m = 4750 mm$$

 $4.75 \times 10^3 = 4750$

- 4. A honey bee's length measures 1 cm. Express this measurement in meters.
 - Explain your thinking using a place value chart.



Explain your thinking using an equation that includes an exponent.

5. James drinks 800 ml of water each day during his workout. Henry drinks 600 ml daily during his workout. If James works out 3 days each week, and Henry works out 5 days each week, how many liters do the boys drink in all each week while working out?



6. Katrina needs to tie ribbons around 10 flower arrangements for a party. Each arrangement requires 1.2 m of ribbon. She also needs 325 cm of ribbon to tie to the balloons for the party. If Katrina buys 15 m of ribbon, will she have enough? If so, how much ribbon (in meters) will she have left? If not, how many more meters of ribbon will she need to buy?

3.25m balloons

12.00 + 3.25 15.25 m Katrina won't have enough ribbon. She needs to buy 0.25m more.