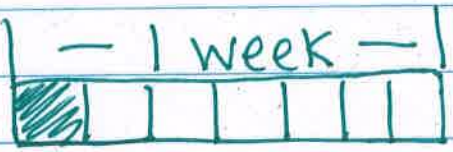
M2L14 -

Application Problem

1. 

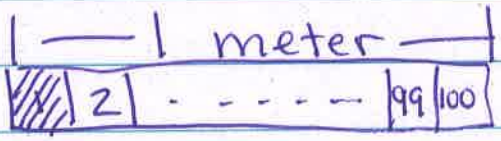
1 day = 1/7 week

2. 

1 foot = 1/3 yard

3. 

1 quart = 1/4 gallon

4. 

1 centimeter = $\frac{1}{100}$ meter

1 centimeter = 0.01 meter

5. 

1 meter = $\frac{1}{1000}$ Kilometer

1 meter = 0.001 Kilometer

M2L14: Equivalent Measurements

Fluency

4 x 1 banana = 4 bananas

4 x 1 seventh = 4 sevenths

$4 \times \frac{1}{7} = \frac{4}{7}$

7 x 1 seventh = 7 sevenths

$7 \times \frac{1}{7} = \frac{7}{7} = 1$

14 x 1 seventh = 14 sevenths

$14 \times \frac{1}{7} = \frac{14}{7} = 2$

8 x 1 fourth = 8 fourths

$8 \times \frac{1}{4} = \frac{8}{4} = 2$

12 x 1 fourth = 12 fourths

$12 \times \frac{1}{4} = \frac{12}{4} = 3$

24 x 1 third = 24 thirds

$24 \times \frac{1}{3} = \frac{24}{3} = 8$

14 days = 2 weeks

Expand = 14 × (1 day)

Convert = 14 × ($\frac{1}{7}$ week)

Answer = $\frac{14}{7} = 2$

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24 feet = 8 yards

Expand = 24 × (1 foot)

Convert = 24 × ($\frac{1}{3}$ yard)

Answer = $\frac{24}{3} = 8$

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195 cm = 1.95 m

E = 195 × (1 cm)

C = 195 × (0.01 m)

A = 1.95 m

578 mL = 0.578 L (0.001 L)

E = 578 × (1 mL)

C = 578 × (0.001 L)

A = 0.578 L

Name _____ Date _____

1. Solve. The first one is done for you.

a. Convert days to weeks.

28 days = 28 × (1 day)

$= 28 \times \left(\frac{1}{7} \text{ week}\right)$

$= \frac{28}{7}$ week

= 4 weeks

b. Convert quarts to gallons.

E 20 quarts = 20 × (1 quart)

C = 20 × $\left(\frac{1}{4} \text{ gallon}\right)$

A = $\frac{20}{4}$ gallons

A = 5 gallons

c. Convert centimeters to meters.

E 920 cm = 920 × (1 cm)

C = 920 × (0.01 m)

A = 9.20 m

d. Convert meters to kilometers.

1,578 m = _____ × (_____ m)

= _____ × (0.001 km)

= _____ km

e. Convert grams to kilograms.

6,080 g =

E 6080 × (1 g)

C

A

f. Convert milliliters to liters.

509 mL =