Name _____ Date _____

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

a. Convert weeks to days.

6 weeks = 6 × (1 week)

= 6 × (7 days)

= 42 days

b. Convert years to days.

7 years = 7 × (1 year)

= 7 × (365 days)

= 2,555 days

c. Convert meters to centimeters.

4.5 m = 4.5 × (1 m)

= 4.5 × (100 cm)

= 450 cm

d. Convert pounds to ounces.

12.6 pounds = 12.6 x (1 lb)

= 12.6 x (16 oz)

= 201.6 ounces

e. Convert kilograms to grams.

3.09 kg = 3.09 x (1 kg)

= 3.09 x (1,000 g)

= 3,090 g

f. Convert yards to inches.

245 yd = 245 x (1 yd)

= 245 x (3 ft)

= 245 x 3 x (1 ft)

= 245 x 3x (12 in)

= 8,820 in

2. After solving, write a statement to express each conversion. The first one is done for you.

a. Convert the number of hours in a day to minutes.

24 hours = 24 × (1 hour)
= 24 × (60 minutes)
= 1,440 minutes

One day has 24 hours, which is the same as 1,440 minutes.

b. A newborn giraffe weighs about 65 kilograms. How much does it weigh in grams?

65 kg = 65 × (1 kg)
= 65 × (1,000 g)
= 65,000 g

One kilogram has 1,000 grams, so 65 kilograms is the same as 65,000 grams.

c. The average height of a female giraffe is 4.6 meters. What is her height in centimeters?

4.6 m = 4.6 × (1 m)
= 4.6 × (100 cm)
= 460 cm

One meter has 100 centimeters, so 4.6 meters is the same as 460 centimeters.

d. The capacity of a beaker is 0.1 liter. Convert this to milliliters.

0.1 L = 0.1 × (1 L)
= 0.1 × (1,000 mL)
= 100 mL

One liter has 1,000 milliliters, so 0.1 liter is the same as 100 milliliters.

e. A pig weighs 9.8 pounds. Convert the pig's weight to ounces.

9.8 lb = 9.8 × (1 lb)
= 9.8 × (16 oz)
= 156.8 oz

One pound has 16 ounces, so 9.8 pounds is the same as 156.8 ounces.

f. A marker is 0.13 meters long. What is the length in millimeters?

0.13 m = 0.13 × (1 m)
= 0.13 × (1,000 mm)
= 130 mm

One meter has 1,000 millimeters, so 0.13 meters is the same as 130 millimeters.