Name _____

TOPIC 14

Reteaching

Set A pages 745–750

Convert 3 yards to inches.

1 foot (ft) = 12 inches (in.)
1 yard (yd) = 3 ft = 36 in.
1 mile (mi) = 1,760 yd = 5,280 ft

1 yard = 36 inches. To change larger units to smaller units, multiply.

$3 \times 36 = 108$

So, 3 yards = 108 inches.

Remember to multiply when changing larger units to smaller units and to divide when changing smaller units to larger units.

Convert.

1. 2 ft = ☐ in.
2. 2 mi = ☐ ft
3. 5 yd = ☐ ft
4. 54 in. = ☐ ft

Compare. Write >, <, or = for each ◯.

5. 7 yd ◯ 50 ft
6. 212 in. ◯ 2 yd

Set B pages 751–756

Convert 16 cups to pints.

2 cups = 1 pint. To change smaller units to larger units, divide.

$16 \div 2 = 8$

So, 16 cups = 8 pints.

Remember that 1 gal = 4 qt, 1 qt = 2 pt, and 1 pt = 2 cups.

Convert.

1. 32 c = ☐ gal
2. 6 pt = ☐ qt
3. 2 gal = ☐ pt
4. 6 pt = ☐ c
5. List 12 pt, 3 gal, and 16 cups in order from least to greatest.

Set C pages 757–762

Convert 6 pounds to ounces.

1 pound = 16 ounces. To change larger units to smaller units, multiply.

$6 \times 16 = 96$

So, 6 pounds = 96 ounces.

To compare customary units, convert one of the units first, so that you can compare like units.

Remember that there are 16 ounces in one pound, and there are 2,000 pounds in one ton.

Convert.

1. 2 lb = ☐ oz
2. 48 oz = ☐ lb
3. 4,000 lb = ☐ T
4. 6 T = ☐ lb

Compare. Write >, <, or = for each ◯.

5. 7 lb ◯ 70 oz
6. 6,000 oz ◯ 3 T
7. How many ounces are equivalent to one fourth of one ton?

Set D pages 763–768

Convert 2 meters to centimeters.

1 km = 1,000 m 1 m = 100 cm
1 m = 1,000 mm 1 cm = 10 mm

1 meter = 100 centimeters. To change larger units to smaller units, multiply.

$2 \times 100 = 200$

So, 2 meters = 200 centimeters.

Remember to convert to the same unit of measure before comparing two lengths.

Convert.

1. 5 m = ☐ cm
2. 2 km = ☐ m
3. 2 km = ☐ cm
4. 20 m = ☐ mm
5. 10 cm = ☐ mm
6. 2,000 mm = ☐ m
7. 9,000 m = ☐ km
8. 7,000 cm = ☐ m

Set E pages 769–774

Convert 6,000 milliliters to liters.

1,000 milliliters = 1 liter. To change smaller units to larger units, divide.

$6{,}000 \div 1{,}000 = 6$

So, 6,000 milliliters = 6 liters.

Remember that the most commonly used metric units of capacity are the liter and milliliter.

Convert.

1. 6 L = ☐ mL
2. 15 L = ☐ mL
3. 2,000 mL = ☐ L
4. 9,000 mL = ☐ L

Set F pages 775–780

Convert 6 kilograms (kg) to grams (g).

1 kilogram = 1,000 grams. To change larger units to smaller units, multiply.

$6 \times 1{,}000 = 6{,}000$

So, 6 kg = 6,000 g.

Remember that to compare metric units, convert one of the units first, so that you can compare like units.

Convert.

1. 30 kg = ☐ g
2. 3,000 mg = ☐ g
3. 5,000 g = ☐ kg
4. 17 g = ☐ mg

Set G pages 781–786

In a contest, Lina jumped 3 yards and Ed jumped 8 feet. Who jumped farther?

Identify the hidden question or questions.
How many feet are in 3 yards?

1 yd = 3 ft, so 3 yd = 9 ft.

Compare the two distances.
Lina jumped 9 feet, Ed jumped 8 feet. So, Lina jumped farther.

Remember to check if the units in the problem are the same.

1. Max wants to put a fence around his triangular garden. If each side is 6 yards, how many feet of fencing does Max need?

Name _____

TOPIC 14 Test

1. During a science experiment, students were asked to compare different masses. Which comparison is **NOT** true?

   A 100 mg $<$ 10 g

   B 2,000 kg $>$ 2,000 g

   C 1,000,500 mg $>$ 1 kg

   D 600 g $>$ 6 kg

2. Veena's baseball bat has a length of 100 centimeters. Which of the following is true?

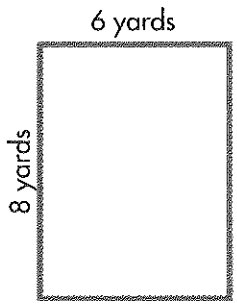
   A 100 cm $<$ 500 mm

   B 100 cm $>$ 3 m

   C 100 cm $>$ 1 km

   D 100 cm $=$ 1 m

3. The dimensions of Justin's garden are shown below. What is the perimeter of the garden in inches?



4. Which of the following can be used to find how many kilograms of sweet potatoes are needed for the recipe?

DATA

Soup Recipe
1 onion
2,000 grams sweet potatoes
3 liters water
15 milliliters chicken stock

   A 1,000 $\div$ 2,000

   B 2,000 $\div$ 1,000

   C 2,000 $\times$ 1,000

   D 2,000 $\times$ 100

5. Ten bales of cotton weigh about 5,000 pounds. Which comparison is true?

   A 5,000 pounds $<$ 10,000 ounces

   B 5,000 pounds $=$ 3 tons

   C 5,000 pounds $<$ 3 tons

   D 5,000 pounds $>$ 3 tons

6. Tyrell bought 4 liters of fruit punch for a party. He will serve the punch in glasses that can hold 200 milliliters. How many glasses of fruit punch can he serve?

7. The nutrition label on a carton of soy milk says that one glass contains 7 grams of protein. How many milligrams of protein does one glass contain?

A 7 milligrams

B 70 milligrams

C 700 milligrams

D 7,000 milligrams

8. Marc says he needs more than 1 yard 9 feet of chicken wire to make a pen for his rabbits. Which length will **NOT** be long enough for Marc to use?

A 54 inches

B 2 ft 25 inches

C 4 yards

D All of these

9. Juanita has a pail with a capacity of 96 fluid ounces. How many pints will the pail hold?

			.		
⓪	⓪	⓪		⓪	⓪
①	①	①		①	①
②	②	②		②	②
③	③	③		③	③
④	④	④		④	④
⑤	⑤	⑤		⑤	⑤
⑥	⑥	⑥		⑥	⑥
⑦	⑦	⑦		⑦	⑦
⑧	⑧	⑧		⑧	⑧
⑨	⑨	⑨		⑨	⑨

10. Mason made 5 quarts of salsa. Which of the following can be used to find the number of cups of salsa Mason made?

A $5 \times 2 \times 2$

B $5 \times 4 \times 4$

C $5 \div 2 \div 2$

D $5 \times 4 \div 2$

11. Alicia bought 5 pounds of potting soil. She wants to put 10 ounces of soil in each of her flower pots. How many flower pots can she fill?

A 6 flower pots

B 8 flower pots

C 10 flower pots

D 12 flower pots

12. The tail of a Boeing 747 is 63 feet 8 inches tall. How many inches tall is the tail?

			.		
⓪	⓪	⓪		⓪	⓪
①	①	①		①	①
②	②	②		②	②
③	③	③		③	③
④	④	④		④	④
⑤	⑤	⑤		⑤	⑤
⑥	⑥	⑥		⑥	⑥
⑦	⑦	⑦		⑦	⑦
⑧	⑧	⑧		⑧	⑧
⑨	⑨	⑨		⑨	⑨