

Name: \_\_\_\_\_

Key

Period: \_\_\_\_\_

Date: \_\_\_\_\_

## Conversions Day 1

## Math 6

Convert each measurement.

1. 8800 yards = \_\_\_\_\_ feet

$$\frac{3 \text{ ft}}{1 \text{ yd}} = \frac{x \text{ ft}}{8800 \text{ yds}}$$

$$3(8800) = x$$

$$\boxed{26,400 \text{ ft} = x}$$

2. 30 fluid ounces = \_\_\_\_\_ cups

$$\frac{30 \text{ fl oz}}{x \text{ c}} = \frac{8 \text{ fl oz}}{1 \text{ cup}}$$

$$30 \div 8 = x$$

$$\boxed{3.75 \text{ c} = x}$$

3. 20 pints = \_\_\_\_\_ Liters

$$\frac{20 \text{ pts}}{x \text{ L}} = \frac{1 \text{ pt}}{0.47 \text{ L}}$$

$$20(.47) = x$$

$$\boxed{9.40 \text{ L} = x}$$

could be done scaling by 20

4. 1.7L = ? mL

$$\frac{1.7 \text{ L}}{x \text{ mL}} = \frac{0.001 \text{ L}}{1 \text{ mL}}$$

$$1.7 = .001x$$

$$1.7 \div (.001) = x$$

$$\boxed{1700 \text{ mL} = x}$$

## Notes

- ① Set up a proportion — = —
- ② The original problem will fill out the first fraction
- ③ The information for the second fraction will come from the conversion sheet

\* Remember: same units in the numerator  
same units in the denominator

5. 32 quarts = \_\_\_\_\_ gallons

$$\frac{32 \text{ qt}}{x \text{ gal}} = \frac{4 \text{ qt}}{1 \text{ gal}}$$

$$32 = 4x$$

$$32 \div 4 = x$$

$$\boxed{8 \text{ gal} = x}$$

could be done w/ scaling by 8

6. 7 quarts = \_\_\_\_\_ cups

$$\frac{7 \text{ qts}}{x \text{ c}} = \frac{1 \text{ qt}}{4 \text{ c}}$$

$$7 \cdot 4 = x$$

$$\boxed{28 \text{ c} = x}$$

7. 38 inches = \_\_\_\_\_ feet

$$\frac{38 \text{ in}}{x \text{ ft}} = \frac{12 \text{ in}}{1 \text{ ft}}$$

$$38 = 12x$$

$$38 \div 12 = x$$

$$\boxed{3.17 \text{ ft} = x}$$

8. 190,080 inches = \_\_\_\_\_ yards

$$\frac{190,080 \text{ in}}{x \text{ yd}} = \frac{36 \text{ in}}{1 \text{ yd}}$$

$$190,080 = 36x$$

$$190,080 \div 36 = x$$

$$\boxed{5,280 \text{ yd} = x}$$

9. 5 cups = \_\_\_\_\_ pints

$$\frac{5 \text{ c}}{x \text{ pts}} = \frac{2 \text{ c}}{1 \text{ pt}}$$

$$5 = 2x$$

$$5 \div 2 \text{ pts} = x$$

$$\boxed{2.5 \text{ pts} = x}$$

10. 4 pounds = \_\_\_\_\_ kilograms

$$\frac{4 \text{ lbs}}{x \text{ kg}} = \frac{1 \text{ lb}}{.45 \text{ kg}}$$

$$(4)(.45) \text{ kg} = x$$

$$\boxed{1.8 \text{ kg} = x}$$

11. 2 feet = \_\_\_\_\_ yards

$$\frac{2 \text{ ft}}{x \text{ yd}} = \frac{3 \text{ ft}}{1 \text{ yd}}$$

$$2 \div 3 \text{ yd} = x$$

$$\boxed{.667 \text{ yd} = x}$$

12. 10 cups = \_\_\_\_\_ fluid ounces

$$\frac{10 \text{ c}}{x \text{ floz}} = \frac{1 \text{ c}}{8 \text{ floz}}$$

$$\boxed{80 \text{ oz} = x}$$

13. 27 inches = \_\_\_\_\_ feet

$$\frac{27 \text{ in}}{x \text{ ft}} = \frac{12 \text{ in}}{1 \text{ ft}}$$

$$27 \div 12 = x$$

$$\boxed{2.25 \text{ ft} = x}$$

14. 5.3 mm = ? m

$$\frac{5.3 \text{ mm}}{x \text{ m}} = \frac{1000 \text{ mm}}{1 \text{ m}}$$

$$5.3 = 1000 x$$

$$(5.3) \div 1000 = x$$

$$\boxed{.0053 \text{ m} = x}$$

15. 6 pt = ? c

$$\frac{6 \text{ pt}}{x \text{ c}} = \frac{1 \text{ pt}}{2 \text{ c}}$$
$$\boxed{12 \text{ c} = x}$$

16. 48 in. = ? yd

$$\frac{48 \text{ in}}{x \text{ yd}} = \frac{36 \text{ in}}{1 \text{ yd}}$$

$$48 = 36 x$$

$$48 \div 36 = x$$

$$\boxed{1.33 \text{ yd} = x}$$

17. 2.5 mi = ? km

$$\frac{2.5 \text{ mi}}{x \text{ km}} = \frac{0.62 \text{ mi}}{1 \text{ km}}$$

$$2.5 = .62 x$$

$$(2.5) \div (.62) = x$$

$$\boxed{4.03 \text{ km} = x}$$

18. 6 m = ? ft

$$\frac{6 \text{ m}}{x \text{ ft}} = \frac{1 \text{ m}}{3.28 \text{ ft}}$$

$$x = 6(3.28) \text{ ft}$$

$$\boxed{x = 19.68 \text{ ft}}$$

19. 12 tons = \_\_\_\_\_ ounces

$$\frac{12 \text{ tons}}{x \text{ lb}} = \frac{1 \text{ ton}}{2000 \text{ lb}}$$

$$x = 12(2000) \text{ lb}$$

$$x = 24,000 \text{ lb}$$

$$\frac{24000 \text{ lb}}{x \text{ oz}} = \frac{1 \text{ lb}}{16 \text{ oz}}$$

$$x = 16(24000) \text{ oz}$$

$$x = 384,000 \text{ oz}$$

$$\boxed{x = 384,000 \text{ oz}}$$