

Name: _____

Period: _____

Worksheet 8-2
Proportions and customary units

Unit 8

Solve each proportion. When necessary, round to the nearest tenth.

1. $\frac{5}{6} = \frac{a}{42}$

4. $\frac{13}{c} = \frac{39}{60}$

7. $\frac{6}{25} = \frac{e}{80}$

2. $\frac{3}{8} = \frac{50}{g}$

5. $\frac{7}{9} = \frac{j}{22.5}$

8. $\frac{6}{13} = \frac{7.8}{m}$

3. $\frac{w}{20} = \frac{6}{23}$

6. $\frac{17}{y} = \frac{51}{60}$

9. $\frac{f}{4} = \frac{12}{49}$

Use proportions to convert from one unit to the other.

10. 2640 ft = _____ mi

11. 3.5 qt = _____ pt

12. 10 lb = _____ oz

13. 66 in = _____ ft

14. 18 qt = _____ gal

15. 8 yd = _____ ft

16. 6.5 c = _____ fl oz

Customary Conversions

8 fluid ounces = 1 cup
2 cups = 1 pint
2 pints = 1 quart
4 quarts = 1 gallon
8 pints = 1 gallon
3 teaspoons = 1 tablespoon
16 tablespoons = 1 cup
16 fluid ounces = 1 pint
16 ounces = 1 pound
5,280 feet = 1 mile
12 inches = 1 foot
3 feet = 1 yard

17. 24 tsp = _____ tbsp

18. 70 fl oz = _____ pt

19. 240 tbsp = _____ c

20. 20 c = _____ qt

21. A doctor told the new parents that their new baby was pretty big because he weighed 152 ounces. How much did the baby weigh in pounds?

22. During one play of the football game, the quarterback ran the ball for 33 yards. How many feet did he run?

Worksheet 8-2**KEY**

1. $a = 35$

4. $c = 20$

7. $e = 19.2$

2. $g = 133.3$

5. $j = 17.5$

8. $m = 16.9$

3. $w = 5.2$

6. $y = 20$

9. $f = 1$

10. 0.5 mi

14. 4.5 gal

18. 4.4 pt

11. 7 pt

15. 2.7 ft

19. 15 c

12. 160 oz

16. 52 fl oz

20. 5 qt

13. 5.5 ft

17. 8 tbsp

21. 925 lbs

22. 99 ft