SM 2

Name:_____ Period:_____

SM2 10.1—Solving Proportions

Solve each proportion. Round answers to the nearest hundredth if necessary.

1. $\frac{x}{6} = \frac{30}{15}$

2. $\frac{12}{5} = \frac{x}{10}$

3. $\frac{4}{5} = \frac{x}{12}$

4. $\frac{1}{x+3} = \frac{3}{29}$

5. $\frac{5}{9} = \frac{5}{x-5}$

6. $\frac{7}{3} = \frac{3x-1}{6}$

7. $\frac{3x-5}{4} = \frac{x}{2}$

8. $\frac{x+2}{16} = \frac{7}{3}$

9. $\frac{30-x}{x} = \frac{3}{2}$

10. $\frac{3}{4} = \frac{5+x}{8+x}$

11. $\frac{x+4}{3} = \frac{2x+3}{5}$

12. $\frac{5}{5x+4} = \frac{2}{3}$

13. George can drive from Columbus to Cincinnati, a distance of 110 miles, in two hours. At that same rate, how long will it take him to drive from Cincinnati to Lexington, a distance of 82.5 miles?

14. Bertha can drive 495 miles on 16.5 gallons of gasoline. How far can she drive on 11 gallons of gasoline?

15. After vacationing in Canada, Doris has $30.40 left in Canadian currency. How much money will she get when she exchanges this for U.S. currency? A Canadian dollar is worth $0.80 for each U.S. dollar.