Name _____ Date _____

LESSON 2.7

Practice C

For use with the lesson "Solve Proportions Using Cross Products"

Solve the proportion.

1. $\frac{38}{56} = \frac{19}{x}$

2. $\frac{56}{a} = \frac{14}{3}$

3. $\frac{7m}{8} = \frac{21}{24}$

4. $\frac{4 + w}{16} = \frac{27}{48}$

5. $\frac{7}{5} = \frac{2c - 1}{45}$

6. $\frac{18}{n} = \frac{54}{n + 40}$

7. $\frac{d}{d - 30} = \frac{13}{8}$

8. $\frac{32 - y}{y} = \frac{6}{10}$

9. $\frac{p + 15}{42} = \frac{p - 5}{14}$

10. $\frac{2z}{z + 7} = \frac{24}{54}$

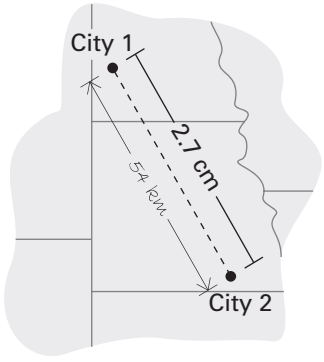
11. $\frac{7}{2} = \frac{b + 4.5}{b - 0.5}$

12. $\frac{4}{c + 1.8} = \frac{6}{c + 4.3}$

13. In the proportion $\frac{2}{h} = \frac{k}{10}$, what happens to the value of h as the value of k decreases? *Explain*.

14. **CD Burners** The Model A CD burner burns 60 minutes of data in about 1.15 minutes. The Model B CD burner burns 60 minutes of data in about 1.5 minutes. How much longer will it take to burn 80 minutes of data onto a CD using the Model B burner than using the Model A burner?

15. **Reading a Map** On the map, the distance between City 1 and City 2 is 2.7 centimeters. Someone has made a note on the map that the actual distance between City 1 and City 2 is 54 kilometers. What scale is used on the map?



16. **Model Railroading** Model railroads use a variety of different scales to model trains and features such as bridges. The O scale uses a scale of 1 in. : 48 ft, the N scale uses a scale of 1 in. : 160 ft, and the S scale uses a scale of 1 in. : 64 ft. Models of three bridges in three different scales are shown in the table below. Estimate the actual lengths of the bridges.

Scale	O	N	S
Bridge	Golden Gate	Lewis and Clark	Francis Scott Key
Model Length (in.)	87.5	7.5	18.75

17. **Fish** At an aquarium, the ratio of freshwater fish to saltwater fish is 3 to 5. Estimate the number of each kind of fish if the aquarium has 640 fish. How many more saltwater fish are there than freshwater fish?