Practice Quiz	Name:
Directions: Show all of your work as you answer the questions in the space provided below. Write your answers in the right column.	Date:

Use the table to write each ratio.

Type of Ball	Number of Balls
Tennis Balls	12
Basketballs	8
Footballs	9
Soccer Balls	16

1. Basketballs to Soccer balls	1.
2. Tennis balls to Footballs	2.
3. Footballs to total balls	3.
4. Write three equivalent ratios for starts to moons.	4. _____ _____ _____
5. Which is the better deal – an 8 oz package of pretzels for $1.92 or a 12 oz package for $2.64?	5.
6. Barry earns $36.00 for 6 hours of yard work. Henry earns $24.00 for 3 hours of yard work. Who has the better hourly rate of pay?	6.

7.

Number in Group	2	4	8	10
Cost ($)	10.50	21	42	52.50

The table above shows the cost of canoeing for different-sized groups. Predict how much a group of 9 will pay.

7.

8. Find three equivalent ratios for 15:7.

8.

9. Brittney does sit-ups every day. The table shows how long it takes her to do different numbers of sit-ups. How long do you predict it will take Brittney to do 120 sit-ups?

Number of Sit-Ups	10	30	50	200	220
Time (min)	2	6	10	40	44

9.

10. Use 15:100 to find two equivalent ratios.

10.

_____

_____

11. Tell whether the following is proportional. Explain your answer using mathematical reasoning.

$$\frac{3}{8} = \frac{6}{10}$$

11.

Yes   No

12. Find the missing value in the proportion.

$$\frac{3}{n} = \frac{15}{25}$$

12.

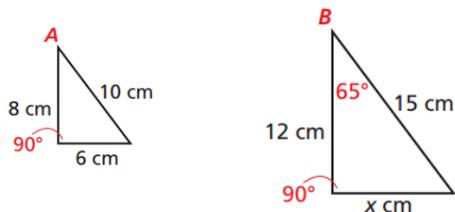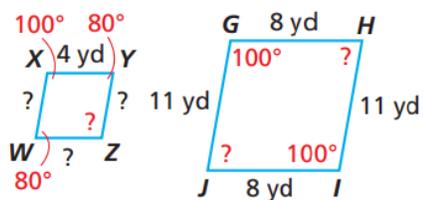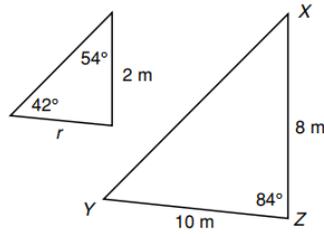|	
13. Find the missing value in the proportion. $$\frac{n}{4} = \frac{18}{6}$$	13.
14. Shane's neighbor pledged $1.25 for every 0.5 miles that Shane swims in the charity swim-a-thon. If Shane swims 3 miles, how much money will his neighbor donate?	14.
15. The two triangles are similar. Find the missing length x and the measure of ∠A. 	15.
16. These figures are similar. Find the unknown measures. 	16.

17. Use the similar figures to find the following measurements. ![similar triangles diagram: small triangle with 54° angle, 2 m side, 42° angle, side r; large triangle with vertex X, 8 m side, Y and 10 m and 84° at Z]	17. $\angle Y$ _____ r _____
18. One grocery store sells a carton of a dozen eggs for $1.99. Another grocery store sells a carton of 18 eggs for $2.29. Which is the better deal?	18.
19. Find the missing value in the proportion. $$\frac{5}{7} = \frac{n}{35}$$	19.
20. Find the missing value in the proportion. $$\frac{x}{6} = \frac{12}{36}$$	20.
21. Find the missing value in the proportion. $$\frac{6}{p} = \frac{4}{28}$$	21.
22. Use a table to find three equivalent ratios. 	60	___	___	___
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100	___	___	___		22.
23. A 26-ounce box of Shaky Flake cereal costs $5.79. A 14-ounce box costs $2.69. Which box costs less per ounce? Explain.	23.