

Name _____

**Practice
10-2**

Equal Ratios

Give two ratios equal to the given ratio.

1. 8 to 12 _____ 2. $\frac{3}{5}$ _____
3. 9 to 3 _____ 4. 15 : 35 _____
5. $\frac{8}{10}$ _____ 6. $\frac{7}{8}$ _____

State if the ratios are equal.

7. 4 : 8; 1 : 2 _____ 8. $\frac{3}{6}, \frac{5}{8}$ _____ 9. 12 to 15, 4 to 5 _____
10. $\frac{10}{12}, \frac{15}{18}$ _____ 11. 15 : 20, 20 : 25 _____ 12. 10 to 8, 20 to 15 _____
13. $\frac{5}{9}, 8$ to 13 _____ 14. 8 : 14, $\frac{4}{7}$ _____ 15. 12 to 28, 18 : 42 _____

For exercises 16–19, give three equal ratios.

16. A third grade class has 4 boys for every 3 girls. _____
17. A pet store has 5 cat collars for every 8 dog collars. _____
18. A corporation has 2 secretaries for every executive. _____
19. A carnival game has 2 winners for every 7 losers. _____

Complete each table of equal ratios.

20. 8 snakes for every 3 turtles

Snakes				
Turtles	3	6	9	12

21. 7 dogs out of 12 pets

Dogs	7		21	
Pets		24		48

22. 12 pizzas to 9 lasagnas

Pizzas	4	8		
Lasagnas			9	12

23. 16 cars to 20 trucks

Cars			12	16
Trucks	5	10		

24. **Social Science** The ratio of Delaware residents to Maine residents was about 55 : 100 in 1970 and about 66 : 120 in 1990. Are these ratios equal? _____

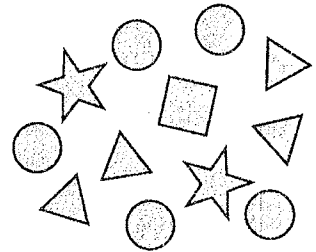
Name _____

**Practice
10-1**

What is a Ratio?

For Exercises 1–4, use the shapes pictured.

1. What is the ratio of triangles to circles? _____
2. What is the ratio of triangles to stars? _____
3. Give the ratio of circles to squares. _____
4. What is the ratio of triangles to the whole group? _____



A box contains 6 green chips, 10 blue chips, and 7 white chips.
Give each ratio in three ways.

5. Green chips to blue chips

6. Blue chips to white chips

7. White chips to green chips

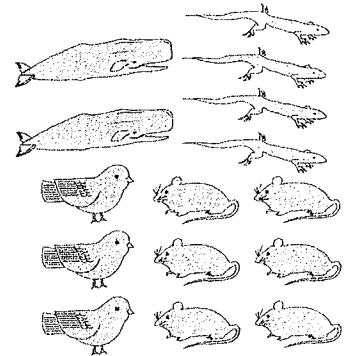
8. Green chips to white chips

For Exercises 9–11, refer to the animals pictured.

9. The ratio of which animal to the whole group is 4 : 15?

10. The ratio of which animal to the whole group is 1 : 5?

11. Which two animals are compared in a ratio of $\frac{4}{3}$?



12. Social Science In 1995, the U.S. Senate consisted of 46 Democrats and 54 Republicans.

- a. Give the ratio of Democrats to Republicans in lowest terms.

- b. Give the ratio of Republicans to all Senators in lowest terms.

13. At Jackson High School, 14 out of 35 students in the marching band are sophomores.
Write this as a ratio in lowest terms.
