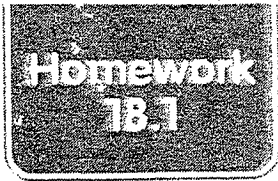


Name _____ Date _____



Ratios

Ways to Write a Ratio		
Word form: 1 to 3	Ratio form: 1:3	Fraction form: $\frac{1}{3}$

Write each ratio three different ways.

1. all shapes to triangles

2. parallelograms to all shapes

3. rectangles to parallelograms

5. all shapes to rectangles

7. rectangles to triangles

Game Pieces	Number
Rectangles	6
Triangles	10
Parallelograms	9

4. triangles to parallelograms

6. parallelograms to triangles

8. triangles to all shapes

Problem Solving

9. Natu has a bag of shapes. There are 5 squares, 9 triangles, and 7 circles. What is the ratio of circles to squares?

Show Your Work

Equivalent Ratios

Different Ways to Find Equivalent Ratios

Way 1: Multiply each term by the same number.

$$\frac{3}{9} = \frac{3 \times 2}{9 \times 2} = \frac{6}{18}$$

Way 2: Divide each term by the same number.

$$\frac{3}{9} = \frac{3 \div 3}{9 \div 3} = \frac{1}{3}$$

Write four equivalent ratios for each.

1. $\frac{2}{5}$

2. 3:7

3. 2 to 9

4. $\frac{1}{6}$

5. 2:4

6. 4 to 7

7. $\frac{6}{5}$

8. 5 to 8

Write each ratio in simplest form.

9. 16:24

10. 35 to 14

11. 20:15

12. 24 to 72

13. 42:14

14. 50 to 75

15. 30:45

16. 28 to 35

Complete each set of equivalent ratios.

17. $\frac{8}{3} = \frac{\square}{24}$

18. $\frac{6}{21} = \frac{\square}{7}$

19. $\frac{13}{52} = \frac{1}{\square}$

Problem Solving

Show Your Work

20. Three copies of a book cost \$20. Write an equivalent ratio to show the cost of 9 copies.
