

Binder Organization

Mrs. Blankenship's Classroom Expectations

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SMP Handbook

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Ratios Resource Page

ICA

Ratios Activities

Homework

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Unit A Quiz


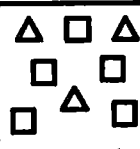

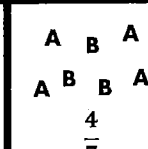
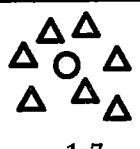

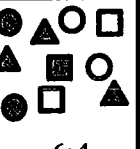






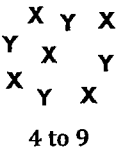
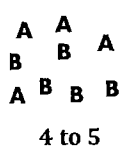

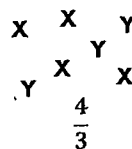
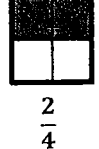
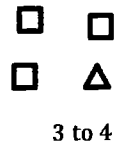
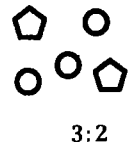
Unit A Test

What type of ratio is it?

Directions: Cut out the cards on the bottom section of the paper. Sort the ratios by type: part-to-part, or part-to-whole. Use both the picture and the written ratio to determine where each card belongs. Glue your final answers on the table below.

Part-to-Part	Part-to-Whole

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 1:3	 3 to 5	 1 to 1	 $\frac{4}{7}$	 1:7	 7:9	 6:4	 $\frac{3}{2}$
 5 to 3	 3:1	 3 to 8	 5 to 3	 4:4	 4 to 9	 4 to 5	 $\frac{2}{3}$
 $\frac{4}{3}$	 $\frac{2}{4}$	 3 to 4	 3:2				

Ratios Resource Page

Ratio: A comparison of two quantities by division

Three ways to write ratios:

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→ Write ratios as you read them.

Ex. There are 7 boys and 8 girls. The ratio of girls to boys is _____

There are two types of ratios.

1. Part to Part Ratios: Compares to parts of something
2. Part to Whole Ratios: Compares one part to the whole group of everything

Ex. 5 grapes to 6 oranges (part to part)

Ex. 5 grapes to all fruits (part to whole)

Equivalent Ratios: Ratios that express the same relationship between two numbers

→ Ratios are similar to fractions.

→ So, when given a ratio, you can change the ratio and scale it up or down by multiplying the top and bottom by the same number and the ratios will be equivalent.

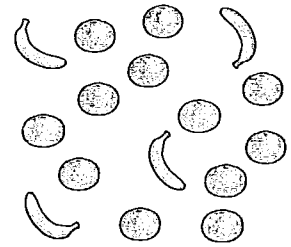
$$\text{Ex. } \frac{3}{5} \times \frac{3}{3} = \frac{9}{15}$$

$$\text{Ex. } \frac{21}{35} \div \frac{7}{7} = \frac{3}{5}$$

Lesson 2 Homework Practice

Ratios

1. **FRUITS** Find the ratio of bananas to oranges in the graphic at the right. Write the ratio as a fraction in simplest form. Then explain its meaning.



2. **MODEL TRAINS** Hiroshi has 4 engines and 18 box cars. Find the ratio of engines to box cars. Write the ratio as a fraction in simplest form. Then explain its meaning.

ANALYZE TABLES For Exercises 3 and 4, refer to the table showing tide pool animals. Write each ratio in simplest form.

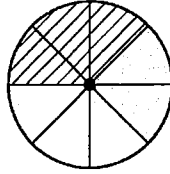
Animal	Number
Anemones	11
Limpets	14
Snails	18
Starfish	9

3. Find the ratio of limpets to snails. Then explain its meaning.
4. Find the ratio of snails to the total number of animals. Then explain its meaning.
5. **ZOOS** A petting zoo has 5 lambs, 11 rabbits, 4 goats, and 4 piglets. Find the ratio of goats to the total number of animals. Write the ratio in simplest form. Then explain its meaning.
6. **FOOD** At the potluck, there were 6 pecan pies, 7 lemon pies, 13 cherry pies, and 8 apple pies. Find the ratio of apple pies to the total number of pies. Write each ratio in simplest form. Then explain its meaning.
7. **BAKERY** Rolls are being prepared to go to grocery stores. Divide 72 rolls into 2 groups so the ratio is 3 to 5.
8. **LAUNDRY** A basket of laundry is being separated. Divide 48 pieces of clothing into 2 groups so the ratio is 1 to 3.

Lesson 2 Problem-Solving Practice

Ratios

For Exercises 1–3, use the figure below. The circle has been divided in eighths.



<p>1. Find the ratio of shaded sections to striped sections. Then explain its meaning.</p>	<p>2. Find the ratio of shaded sections to the total number of sections. Write the ratio as a fraction in simplest form. Then explain its meaning.</p>
<p>3. What is the ratio of empty sections to striped or shaded sections? Explain its meaning.</p>	<p>4. FOOTBALL In a recent NFL season, the Miami Dolphins won 4 games and the Oakland Raiders won 5 games. What is the ratio of wins for the Dolphins to wins for the Raiders?</p>
<p>5. GARDENING Rod has 10 rosebushes, 2 of which produce yellow roses. Write the ratio <i>2 yellow rosebushes out of 10 rosebushes</i> in simplest form.</p>	<p>6. AGES Oscar is 16 years old and his sister Julia is 12 years old. What will be the ratio of Oscar's age to Julia's age in 2 years? Write as a fraction in simplest form.</p>

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