

Lesson 3-1 • Group 2

Reinforce Understanding

3.1 Small Group • Group 2

I can write and describe a ratio that compares two quantities, explain what each part stands for, and build one for a situation I have not seen before.

Worked model

1. Count each group. pens = 10 pencils = 4
2. Write them in the order the question asks — pens FIRST.
3. Write all three forms: 10 to 4 • 10 : 4 • 10/4
4. Simplify: divide both terms by 2. 10 : 4 → 5 : 2

Answer: The ratio of pens to pencils is 5 : 2 in simplest form.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Sort each statement — is it a part-to-part ratio or a part-to-whole ratio?

Write the name of the correct group on each line.

Groups: Part-to-Part Part-to-Whole

- _____ 3 boys to 5 girls in cooking class
- _____ 5 girls out of 8 students total
- _____ 2 cups sugar to 3 cups flour
- _____ 4 vegetarian dishes out of 10 total dishes
- _____ 7 savory items to 3 sweet items
- _____ 3 sweet items out of 10 total items

2. Complete the table by writing each ratio in all three forms.

Complete the table. Show how you found each value.

Description	Word Form	Colon Form	Fraction Form
4 cats to 7 dogs	4 to 7	4:7	4/7
9 red out of 15 total			
5 wins to 3 losses			

Show your work
