10-1 Ratios

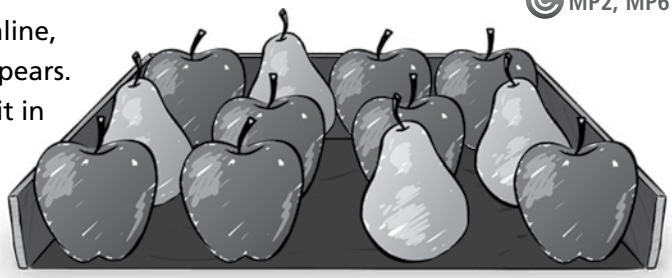
Digital Resources

CCSS: 6.RP.A.1: Understand the concept of ratio and use ratio language to describe a relationship between two quantities.

Launch

MP2, MP6

A gift shop sells boxes of fruit online, including this box of apples and pears. Use numbers to compare the fruit in three different ways.



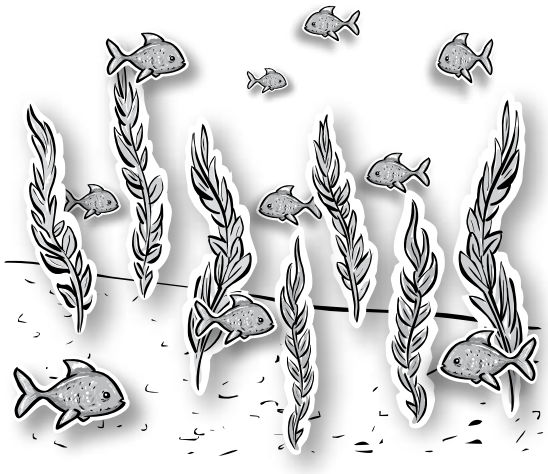
Comparison 1	Comparison 2	Comparison 3

Reflect Choose one of your comparisons. Describe a situation where you could use it.

Got It?

PART 1 Got It

Write the ratio of the number of fish to the number of plants.



PART 2 Got It

You have read 20 books from a series of 23 books. Write the ratio of the number of books you have *not* read to the number of books you have read.

PART 3 Got It (1 of 2)

In a class, 15 students are wearing sneakers, 10 students are wearing boots, and 5 students are wearing sandals. Write the ratio of the number of students wearing sneakers to the total number of students.

PART 3 Got It (2 of 2)

Determine whether the following statement is *always, sometimes,* or *never* true. Explain your reasoning.

Suppose you have a basket of fruit. Let $a : b$ equal the ratio of the number of apples to the number of bananas. Then the ratio of the number of apples to the total number of pieces of fruit in the basket is $a : a + b$.

Close and Check

Focus Question

MP1, MP3

In this lesson you learned some ways to compare quantities.
What are some ways to compare quantities? How can you use them?

Do you know HOW?

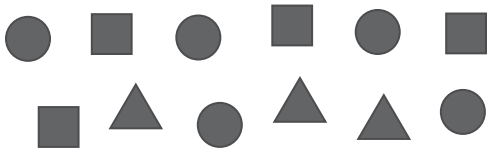
1. A sixth-grade band has 4 guitarists, 2 drummers, and 3 singers. Write a ratio for each comparison.

number of singers to number of guitarists ☐ to ☐

number of guitarists to number of band members ☐ to ☐

number of drummers to number of singers ☐ to ☐

2. For each ratio, tell what items are being compared.



4 : 3

☐ to ☐

12 : 4

☐ to ☐

Do you UNDERSTAND?

3. Vocabulary What is a ratio?

4. Reasoning A class has 15 boys and 12 girls. Write at least three different ratios using this information.

5. Error Analysis Your friend says the ratio of the number of Hs to the number of Gs is 4 : 3. Is this correct? If not, tell what mistake he makes.

H H G H
G G G