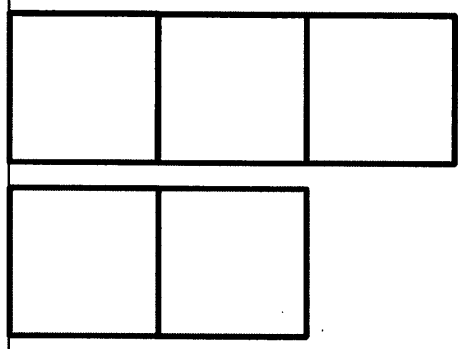


I can generate equivalent ratios and determine if ratios are equivalent.

Understanding Equivalent Ratios

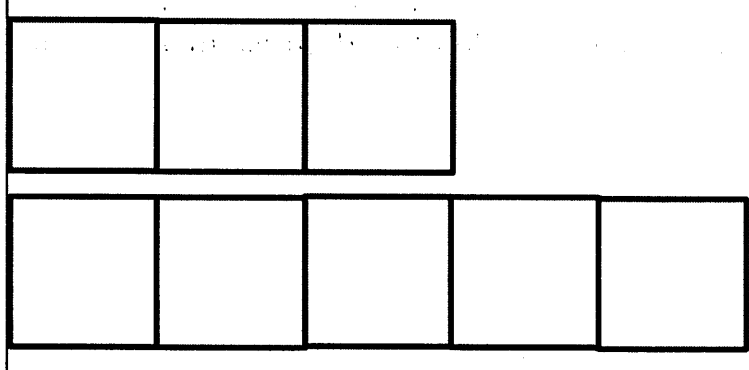
Example

A package of toy blocks contains rectangles and triangles. The ratio of rectangles to triangles is 3:2. To describe the possible number of blocks that could be in the package you can set up bins to place an equal amount of blocks in.

	Rectangles	Triangles	Total Blocks
			

Example

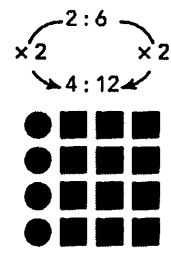
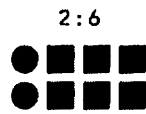
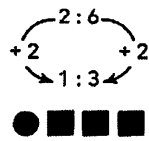
At the 6th grade dance the ratio of boys to girls is 3:5. What is the possible number of girls and boys that could be at the dance?

	Boys	Girls	Total
	15	40	72

Got It?

During the month of July the ratio of sunny days to cloudy days was 4:1. If there were 24 sunny days, how many cloudy days were there?

You can find **equivalent ratios** by multiplying or dividing each term of the ratio by the same nonzero number.



Example

The attendant at a parking lot compared the number of hybrid vehicles to the total number of vehicles in the lot over a weekend. The ratios for the three days were equivalent. Complete the table.

Day	Hybrids	Total
Fri.	5	8
Sat.		56
Sun.	45	

Got It?

Write a ratio equivalent to 3 : 4.

Example

You make a playlist with 6 hip hop songs and 9 pop songs for a party. All songs play for the same length of time. Now you want to make a longer playlist and a shorter playlist that each have an equivalent ratio of the number of hip hop songs to the number of pop songs.

- How many songs of each type can you put on your longer playlist?
- How many songs of each type can you put on your shorter playlist?

Got It?

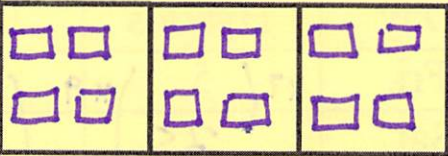
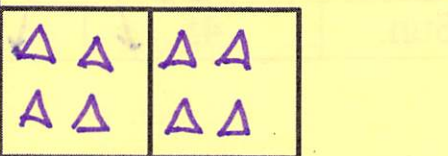
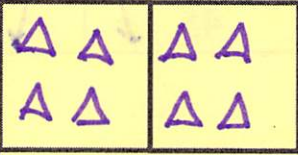
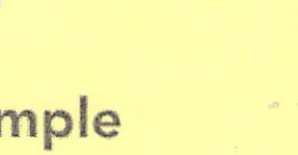
Write two different ratios equivalent to 4 : 10.

I can generate equivalent ratios and determine if ratios are equivalent.

Understanding Equivalent Ratios




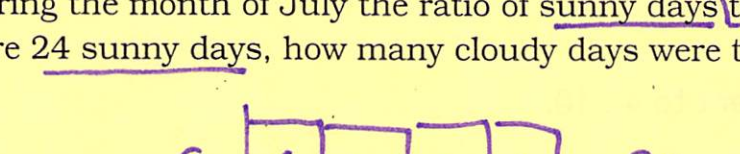


Example

A package of toy blocks contains rectangles and triangles. The ratio of rectangles to triangles is 3:2. To describe the possible number of blocks that could be in the package you can set up bins to place an equal amount of blocks in.

		Rectangles	Triangles	Total Blocks
R		3	2	5
		6	4	10
T		9	6	15
		12	8	20



Example

At the 6th grade dance the ratio of boys to girls is 3:5. What is the possible number of girls and boys that could be at the dance?

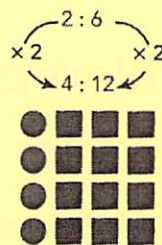
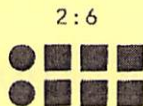
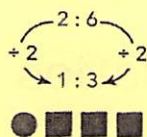
	Boys	Girls	Total
B		5	8
G		10	16
		15	24
		20	32
		25	40
		30	48
		35	56
		40	64
		45	72

Got It?

During the month of July the ratio of sunny days to cloudy days was 4:1. If there were 24 sunny days, how many cloudy days were there?

S		24 sunny days
C		6 cloudy days

You can find **equivalent ratios** by multiplying or dividing each term of the ratio by the same nonzero number.



Example

The attendant at a parking lot compared the number of hybrid vehicles to the total number of vehicles in the lot over a weekend. The ratios for the three days were equivalent. Complete the table.

Day	Hybrids	Total
Fri.	5	8
Sat.	35	56
Sun.	45	72

Got It?

Write a ratio equivalent to 3 : 4.

$$6:8 \quad \text{or} \quad 30:40 \quad \dots$$

Example

You make a playlist with 6 hip hop songs and 9 pop songs for a party. All songs play for the same length of time. Now you want to make a longer playlist and a shorter playlist that each have an equivalent ratio of the number of hip hop songs to the number of pop songs.

$$6:9$$

a. How many songs of each type can you put on your longer playlist?

$$12:18 \rightarrow 30 \text{ songs}$$

Hip-Hop: Pop

b. How many songs of each type can you put on your shorter playlist?

$$2:3 \rightarrow 5 \text{ songs}$$

Hip-Hop Pop

Got It?

Write two different ratios equivalent to 4 : 10.

$$2:5$$

$$40:100$$