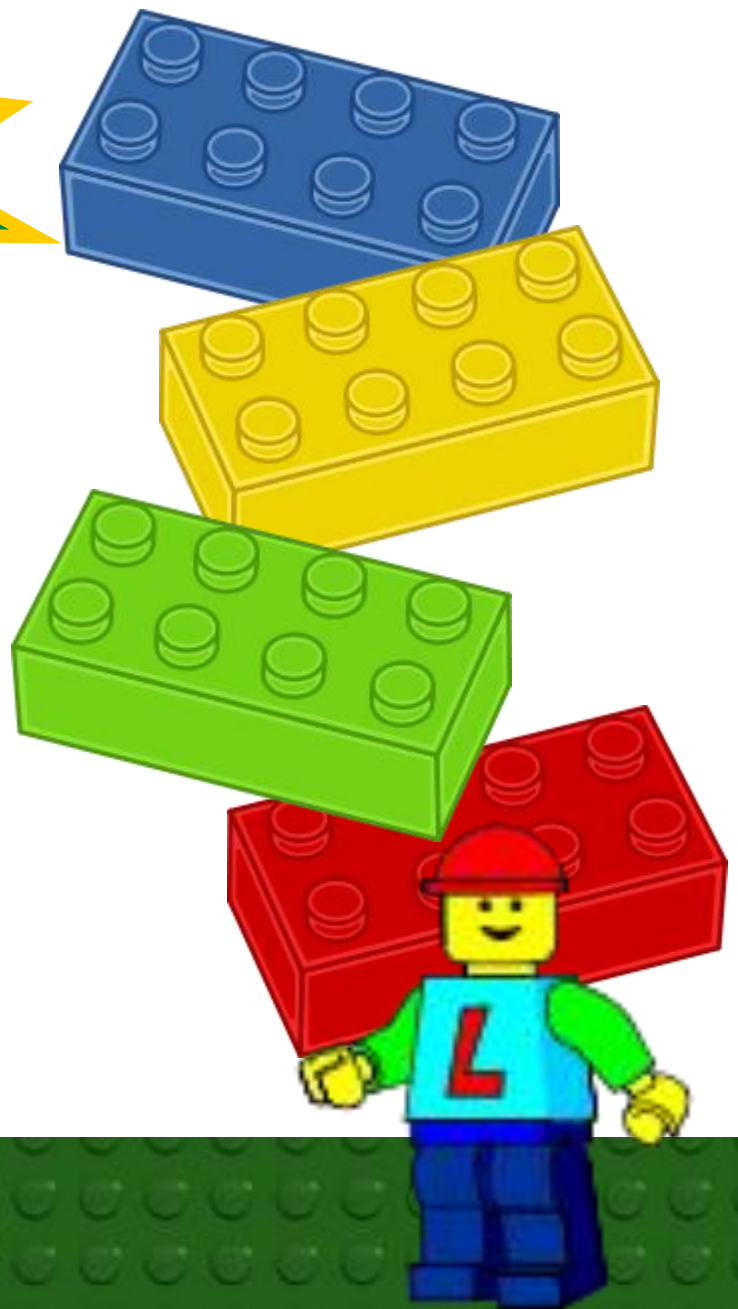


# LEGO® Ratios

FREE

Hands-On  
Solving Ratios

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Cover Background: [Motorcycle Backgrounds](#)

LEGO® Clip Art: [OpenClipArt.org](http://OpenClipArt.org)

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# LEGO® Ratios

LEGO Ratios is a great introductory activity for teaching ratios to your students. Inside you'll find a worksheet with ratio questions a ratio table to fill in, and a math station.

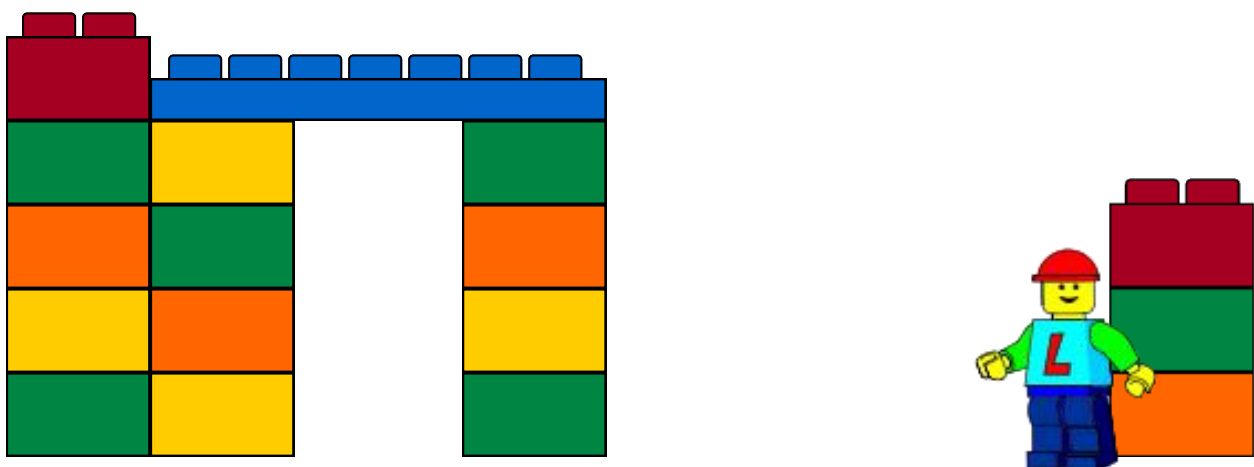
Each student will need their own small handful of LEGO's to work with. I chose red, blue, and yellow to specify in my worksheet because most classroom and personal sets come with these colors. Feel free to cross out color names and use what you have.

You can be very methodical and give every student the same amount of LEGO's or you can just give a handful to each student. They'll need to count the total amount of LEGO's they have and then use this number to answer the questions on the following pages.

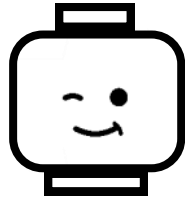
For the building worksheet, they do not need to use all of their LEGO's unless they want to. You may want to bring a camera that day to take photo's of their creations because there will be some really interesting items being made.

I included a LEGO math station where students build ratio LEGO towers. They choose the amounts and build a long length. They need to use three colors. Have them write their own ratio questions and answer them.

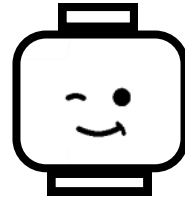
I love using LEGO's to teach math. If you are looking for other ways to teach with LEGO's, please visit my blog and read the [5 part post](#) about using them.



Name: \_\_\_\_\_ Period: \_\_\_\_\_



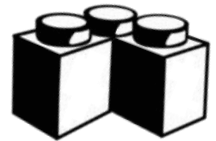
# LEGO<sup>®</sup> Ratios



Directions: Using the bag of LEGO's that you have been given, answer the following ratio problems. Remember to keep all your answers in simplest terms.

1. How many LEGO's do you have total and write it below:

2. What is the ratio of red LEGO's to the total amount of LEGO's?



3. What is the ratio of blue LEGO's to the total amount of LEGO's?

4. What is the ratio of yellow LEGO's to the total amount of LEGO's?

5. What is the ratio of red to blue LEGO's?

6. What is the ratio of blue to red LEGO's?



7. What is the ratio of yellow to red LEGO's?

8. What is the ratio of yellow and red to blue LEGO's?

9. Write any three of the above ratios in two other ways. (I.E. 2 to 1)

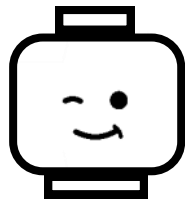
10. If you were given 23 more red LEGO's, what would your ratio of red to total be? Red and blue to total? Red to Yellow?



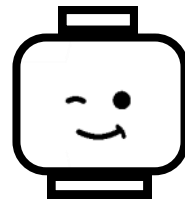
11. If you were given 16 more yellow, what would your ratio of yellow to total be? Yellow to blue? Yellow and Red to total?

12. Write your own ratio question using your LEGO's.

Name: \_\_\_\_\_ Period: \_\_\_\_\_



# LEGO<sup>®</sup> Ratios



LEGO headquarters has called you and apparently you won a rare opportunity to be a designer for a day. Build with the LEGO's you have been given to give them a sample of your work. You do not have to use all of the LEGO's.

Write the LEGO amounts below:

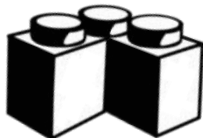
Total Amount of LEGO's used: \_\_\_\_\_

Total Red: \_\_\_\_\_

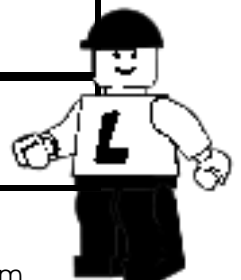
Total Blue: \_\_\_\_\_

Total Yellow: \_\_\_\_\_

Headquarters would like to scale up your design, but they need to know how many LEGO's for each size. Fill in the ratio table below. Your design fits specifications for x-small.

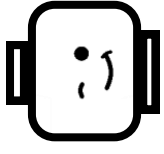


	X-Small	Small	Medium	Large	X-Large
		x 5	x 15	x 30	x 45
Red					
Blue					
Yellow					
Total LEGO's					



Name: \_\_\_\_\_ Period: \_\_\_\_\_

# LEGO® Ratios



Build a tower of LEGO's using three different colors. Write your five ratio questions and answer them. Draw a picture of your LEGO tower.

