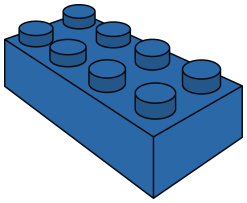
Math Challenge Cards with LEGO® Bricks!

These math challenge cards are a fabulous tool for making math concepts understandable in a fun and hands-on way. I wrote the math challenges with grades 1 and 2 in mind, or kids ages 6-8. First graders may not be quite ready for these challenges early in the year, but they will be perfect for challenging kids who finish their work early, or for use in the second semester. Second graders should be able to master these concepts.

The challenges address the following concepts:



- Addition
- Subtraction
- Place Value
- Measurement
- Estimation
- Fractions
- Grouping – essential for understanding multiplication!

There are 54 challenge cards, so even if your child or your students are not ready for all of them, you can select appropriate cards to put out at a math center, etc. I would recommend using the cards with a basket of at least 50 2x2 bricks. They don't necessarily have to be 2 x 2 bricks, however. 2 x 4 bricks will also work. Ten each of red, yellow, green, blue and another color of your choice would be sufficient. If you plan to let several students work on the challenges at the same time, you may need more bricks.

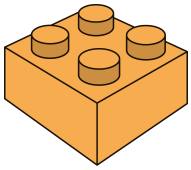
Tip – I would recommend teaching your students to use two different colors for addition. They should show 4 + 8 with four bricks of one color attached to 8 of another color, for example.

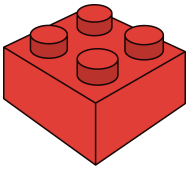
You may want to provide a base plate for the shape-building cards.

If you're looking for more LEGO® math center ideas, check out these:

Multiplication: https://frugalfun4boys.com/2018/02/11/printable-lego-multiplication-game/

Probability: https://frugalfun4boys.com/2017/10/18/fun-with-math-probability-and-graphing-with-lego-bricks/





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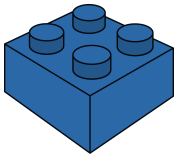
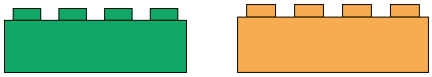
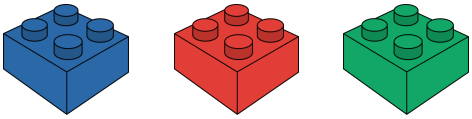
Clipart by Zip-A-Dee-Doo-Dah Designs

Build a tower that is 3 less than 8 + 7 bricks tall.



Build a tower the length of your shoe. How many bricks long is it?

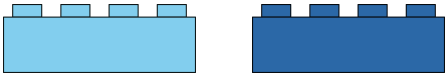




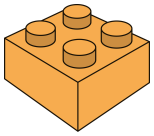
Build a pattern with three colors of bricks.

Build 6 towers with 3 bricks in each tower. How many bricks is that in all?

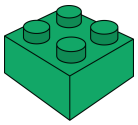
How many bricks can you stack in one minute? Time yourself, then count the bricks.



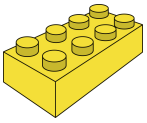
Build a tower with 15 bricks. Then double the height. How many bricks is that?



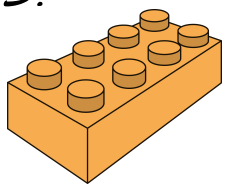
Build 5 groups of 7 bricks each. How many bricks is that in all?



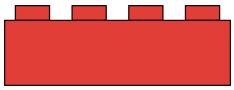
Build 46 by building 10's and 1's. How many 10's is that? How many 1's?



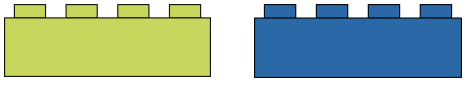
Build three different ways to make 15.



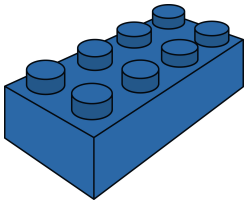
Build 2 groups of 8. Build 8 groups of 2. Is the number of bricks equal or not equal?



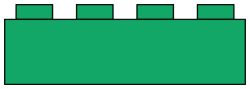
Build a rectangle that has two long sides that are twice as long as the two short sides.



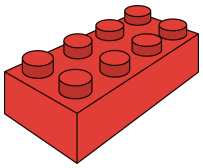
Build a tower that is 5 more than 6 + 9.



Build a tower with 20 bricks. Make ¼ of the bricks blue, ¼ green, and ½ red.

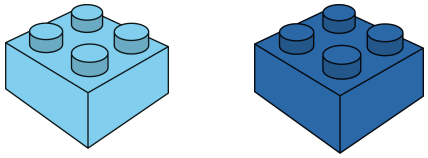


Make a tower with 12 bricks, and make 1/3 of the bricks red..

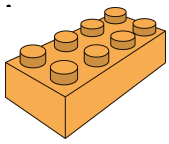


Pretend that blue bricks are worth 5 cents and green bricks are 1 cent. Build a tower showing the bricks you would need to make 57 cents.

Build 4 groups of 7. How many bricks is that in all?

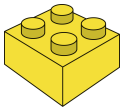


Build 35 by building 10's and 1's. How many 10's is that? How many 1's?

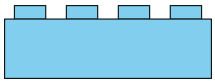


Build a square. Then build another square with sides that are twice as long. How many of your first square would fit on top of the second one?

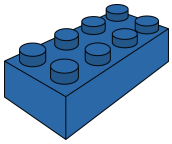
Pretend that green bricks are worth 10 cents and yellow bricks are worth 2 cents. Build a tower worth 48 cents.



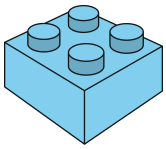
You have a tower with 35 bricks. You share 13 bricks with a friend. Now how tall is your tower?

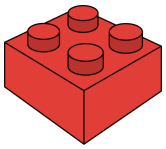


Build 3 towers with 7 bricks in each tower. How many bricks do you have in all?

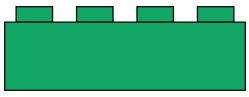


Build a tower that is 4 more than 10 + 3.

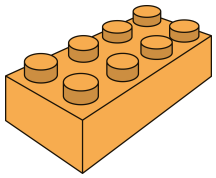




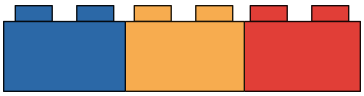
Compare 3 groups of 4 bricks and a stack of 10 bricks. Which is greater?



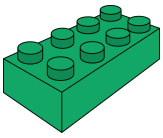
Build a pattern with 4 different colors of bricks.



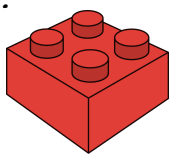
Make a solid rectangle that is 6 studs by 9 studs. How many total studs are in your square?



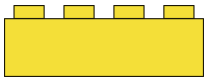
Build 3 towers with 9 bricks in each tower. How many bricks total did you use?



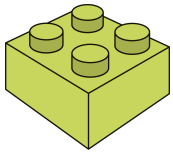
Find a book and measure the perimeter with 2 x 2 bricks.



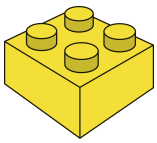
Sort your bricks by color. Draw a graph showing how many bricks there are of each color.



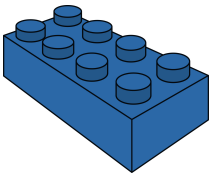
Pretend that 2x2 bricks are candies. Build a candy box that will hold 10 candies.



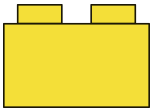
Build towers with this pattern: 1+2, 2+2, 3+2, 4+2, and so on.



Build 38 in 10's and 1's. How many 10's? How many 1's?

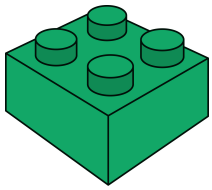


Estimate how tall a tower of 50 bricks will be in inches. Then build it and measure!

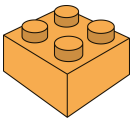


Rachel had 24 bricks. She gave half of them to Garrett. Then she gave 3 more to Emma. How many does she have left?

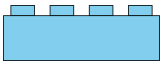
Build a tower with 16 bricks. Make ¼ of the bricks green.



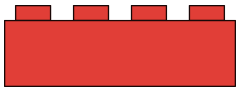
Build 6 towers with 5 bricks in each tower. Five groups of 6 equals how many bricks?



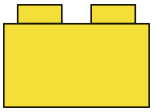
Build a set of towers. Start with 2 bricks in the first one. Then double that number. Then double it again! And again!



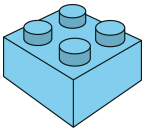
Measure the length of your desk with bricks. How many bricks long is it?

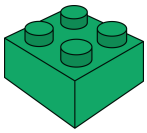


Estimate how tall a tower of 50 bricks will be in inches. Then build it and measure!

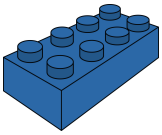


Build this pattern:
5
Two 5's
Three 5's
Four 5's
And so on

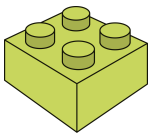




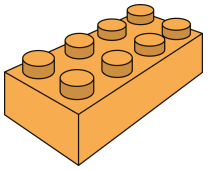
Build a tower with 18 bricks. Make 1/3 of the bricks blue, 1/3 yellow, and 1/3 green.



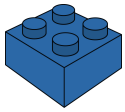
Build 4 towers with 9 bricks in each tower. How many bricks are in 4 groups of 9?



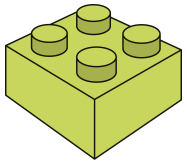
Build this pattern:
3
Two 3's
Three 3's
Four 3's
And so on



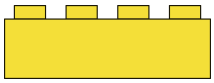
Grab 25 bricks.
Make groups of 4.
How many groups can you make?
How many bricks are left over?



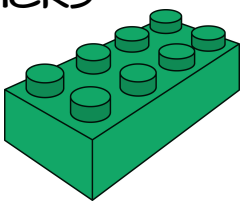
Build this pattern:
4
Two 4's
Three 4's
Four 4's
And so on



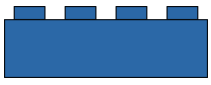
Grab 32 bricks.
Make groups of 5.
How many groups can you make? How many bricks are left over?



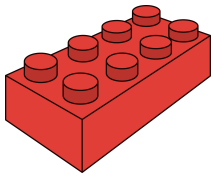
Build a tower with 14 bricks. Make ½ of the bricks green.



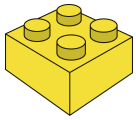
Grab 24 bricks.
Make groups of 3.
How many groups can you make? How many bricks are left over?



Build a tower that is 8 less than 14 + 7.



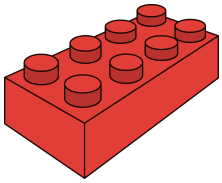
Grab a handful of bricks. Guess how many are in your hand before looking. Then count them. Were you right?



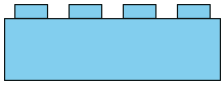
Build a tower with 32 bricks. Take 13 bricks away. How many do you have now?

Find two books and put them on the floor with a gap in between. Build a bridge that spans the gap. Measure how long your bridge is.

Build a tower with 18 bricks. Make ½ of them red.



Grab 27 bricks. Make groups of 6. How many groups can you make? How many bricks are left over?



Make 9 towers with 2 bricks in each tower. How many bricks do you have in all?