# Learning Division

## Third Grade

### Overview

Students will learn how multiplication can be used to solve division problems by using factors and other methods.

### Objectives

During this activity students will:
- Learn division skills
- Learn how to apply new skills to multiplication
- Be able to see how factors are used in multiplication

### Standards

- **3.2.3** - Represent the concept of division as repeated subtraction, equal sharing, and forming equal groups
- **3.2.4** - Know and use the inverse relationship between multiplication and division facts, such as $6 \times 7 = 42$, $42 \div 7 = 6$, $7 \times 6 = 42$; $7 \times 6 = 42$; $42 \div 6 = 7$  

### Materials

- SmartBoard
- Create MyStudiyo Division Quiz on your own channel

### Procedure

Start off by bringing circles onto the SmartBoard.
- Show dividing circles in certain amounts like two, eight, fifteen
- Then show students a simple division problem like $12 \div 6$. Ask them how they could illustrate this with a circle. Explain that the equation is asking if you have 12 pieces and put those pieces into groups of 6, how many groups will you have?
- Students then should try to attempt problem with the circle, but you may end up showing them. Then ask if they recognize anything about

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these numbers. Students should bring up 6 x 2 = 12.

- Explain that division is just like multiplication that you’re missing a factor to get the answer. Division is set up that the dividend is divided by the divisor which equals the quotient.
- Finish by creating more simple division facts and guiding the class through them. Using circles to explain when necessary. Keep practicing and complicating the problems over the week.

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<th>Evaluation</th>
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<td>After students have had adequate practice, introduce them to MyStudiyo and show them how to access your channel so they can complete the quiz you’ve created. You may want to create multiple quizzes for the students to take. MyStudiyo will allow you to view the results of each student, so you will be able to discern the pace of your class.</td>
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