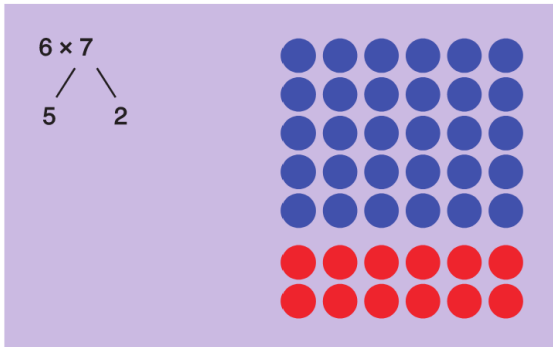


**Dimensions Math**  
**Grade 3 Letter Home**  
**Chapter 8 Multiplying and Diving with 6, 7, 8, and 9**

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**Home Connection**

In this chapter, students learn the remaining multiplication and division facts for 6, 7, 8, and 9. Students will continue to use facts they know to find facts they have not yet learned. Students will also continue to informally apply the distributive property. For example,  $6 \times 7$  can be thought of as the sum of the products of  $6 \times 5$  and  $6 \times 2$ .



From the diagram, students can see that they can add the products of  $6 \times 5$  and  $6 \times 2$  to get the product of  $6 \times 7$ . Students do not need to learn the names of the properties (commutative and distributive) or rules about order of operations at this point.

Students will apply learned facts for 6, 7, 8, and 9 to the multiplication and division algorithms. These skills will help students master the facts while they continue to practice algorithms.

**What can we do at home?**

Practice these new multiplication and division facts with flash cards. One good way to track your child's growth is with the activity called Traffic Lights.

$6 \times 6$	$6 \times 7$	$6 \times 8$	$6 \times 9$
	$7 \times 7$	$7 \times 8$	$7 \times 9$
		$8 \times 8$	$8 \times 9$
			$9 \times 9$

**Traffic Light Flash Cards**

**Materials:** Flash cards and a large piece of paper with a red circle, a yellow circle, and a green circle

**Directions:**

- Go through the flash cards and sort them according to this:
  - The cards they do not know or must count to determine the answer.
  - The cards that your child knows, but not very quickly.
  - The cards that your child knows automatically. (responds within 3 to 4 seconds)
- Then discuss strategies to help your child with the cards in the red pile. (doubles plus 1, use a known fact, number bond)
- Practice daily and celebrate as the green pile grows.

**There is a video for this activity on our TCA Website.**

<https://www.tcatitans.org/Domain/200>

**multiplication and division folder.**

**It is located in the math resources**