# Multiply with 7, 8, and 9

LESSON 7

## Dear Family,

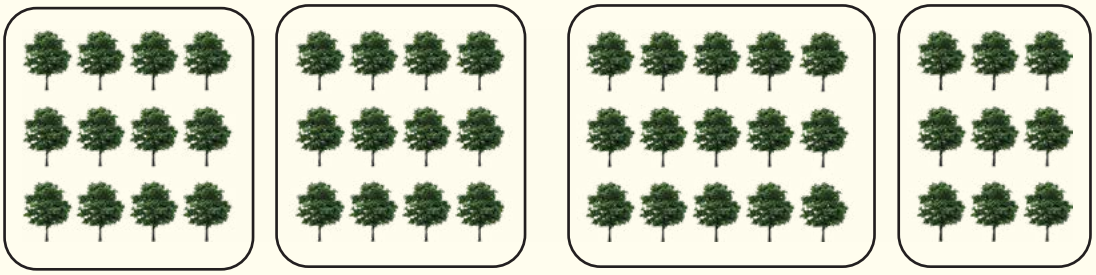
### This week your child is learning multiplication facts for 7, 8, and 9.

Your child can use known multiplication facts for 1, 2, 3, 4, 5, 6, and 10 to learn the multiplication facts for 7, 8, and 9. To help learn facts for these greater numbers, you can break apart the number into two lesser numbers to make the problem easier.

Take a look at this problem.

> *A tree farmer plants 3 rows of trees. Each row has 8 trees. How many trees are planted?*

If you do not know $3 \times 8$, you can break apart the problem into simpler problems you do know. You can do this in different ways.



$(3 \times 4) + (3 \times 4)$
$12 + 12 = 24$
So, $3 \times 8 = 24$.

$(3 \times 5) + (3 \times 3)$
$15 + 9 = 24$
So, $3 \times 8 = 24$.

Invite your child to share what they know about multiplying with 7, 8, and 9 by doing the following activity together.



**Learning Games**

- Match
- Cupcake
- Pizza

**Math Tools**

- Number Line
- Multiplication Models



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# ACTIVITY TILE CAPTURE GAME

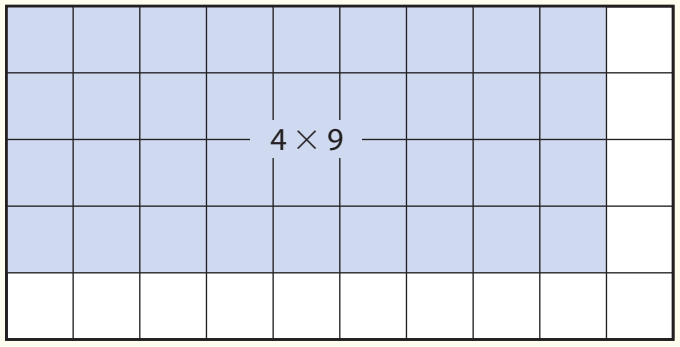


**Do this activity with your child to multiply with 7, 8, and 9.**

**Materials** grid paper, colored pencils or markers, index cards numbered 1–10 (at least 2 cards per number), paper to keep score

Play this game with your child to practice multiplication facts for 1–10. The object of the game is to fill in the greatest number of squares on the grid paper.

- Each player chooses a colored pencil or marker that will be their color for the whole game.
- Shuffle the index cards and place them in one pile, facedown. On each turn, a player will draw two cards from the pile. The numbers are the factors in a multiplication problem, in order as drawn (for example, drawing 4 and then 9 makes $4 \times 9$).
- Have your child state the multiplication fact for these numbers and then "capture" and color a rectangle of tiles on the grid paper that represents the multiplication fact.
- After a player colors in their rectangle, record the product of the multiplication fact as points. Add on to each player's points as you go.
- As players take turns and the grid paper fills up, there will be times when a rectangle for a multiplication fact will not exactly fit on the paper. In this case, play passes to the next player. When the cards run out, the game is finished. The player who captured the most tiles—and has the most points—wins.




Ande 36

Mom

Be sure to have your child state the full multiplication fact that each rectangle represents. Encourage your child to try different strategies as they approach a multiplication fact that is unfamiliar, such as skip-counting or breaking apart a factor.


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