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LESSON 2-4

9 as a Factor

 [MA.3.NSO.2.4](#), [MA.3.AR.3.3](#), [MTR.2.1](#), [MTR.4.1](#), [MTR.5.1](#)

For more help with this lesson, view the [Visual Learning Animation](#) or the [Another Look Video](#).

MATH HELP AT HOME

Sample Additional Practice Exercise 1

Solve the equation.

$$9 \times 0 = \underline{0}$$

Any number multiplied by 0 equals 0.

HOME ACTIVITY

Nines are Fine

MATERIALS

Paper, Pencil

ACTIVITY

H

Processing math: 100%

 these multiplication facts for 9s, one on each line.

$$9 \times 1 = 9$$

$$9 \times 2 = 18$$

$$9 \times 3 = 27$$

$$9 \times 4 = 36$$

$$9 \times 5 = 45$$

$$9 \times 6 = 54$$

$$9 \times 7 = 63$$

$$9 \times 8 = 72$$

$$9 \times 9 = 81$$

$$9 \times 10 = 90$$

Then have your child read down their list, from top to bottom, three times as instructed here. Examine the patterns:

Say and point to the number that is being multiplied by 9: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.

Say and point to the tens digit of each answer: 0 (although 0 is not written before the number 9), 1, 2, 3, 4, 5, 6, 7, 8, 9.

Say and point to the ones digit of each answer: 9, 8, 7, 6, 5, 4, 3, 2, 1, 0.

Now ask your child to add the tens and ones digits of each answer: $0 + 9 = 9$, $1 + 8 = 9$, $2 + 7 = 9$, $3 + 6 = 9$, $4 + 5 = 9$, $5 + 4 = 9$, $6 + 3 = 9$, $7 + 2 = 9$, $8 + 1 = 9$, $9 + 0 = 9$. This may be a fun discovery for your child, that the multiples of 9 have digits that add to 9.

Encourage your child to use all of these patterns to learn the multiplication facts for 9s.