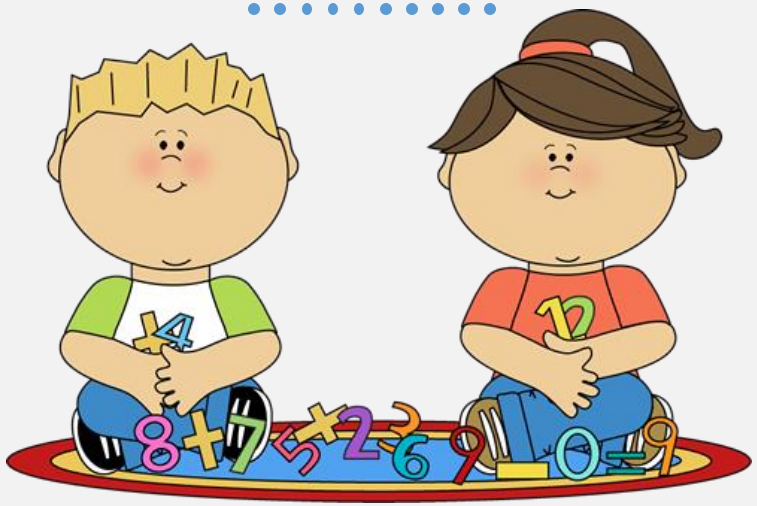
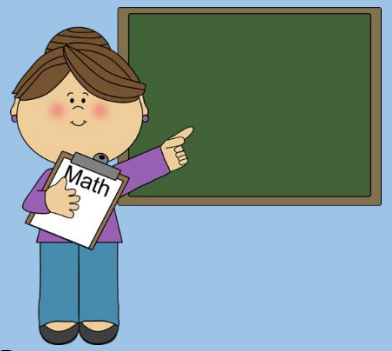


Grade 3 Math

Day 1



Hello!

In today's lesson you will review using multiplication to find an unknown in a division equation.

This lesson consists of an opening, a problem of the day, a math activity, a reflection, and Dreambox if internet is available.

All assignments that have this picture are due to your teacher.

Standard:

3.ATO.6 Understand division as a missing factor problem.

I CAN Statements:

I can explain the relationship between multiplication and division.

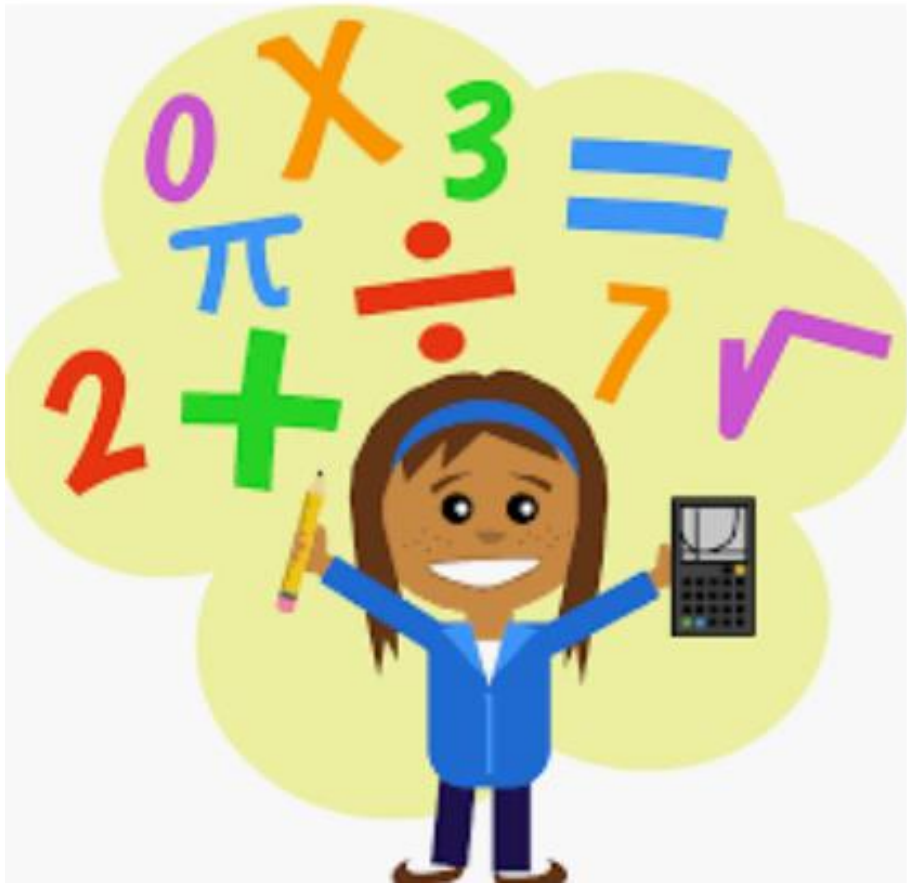
I can use multiplication to find an unknown in a division equation.

Essential Questions:

- How can multiplication be used to help solve a division equation?

Materials and Resources:

- Manipulatives (If internet is available)
- Paper and Pencil
- Dreambox (If internet is available)



Activities

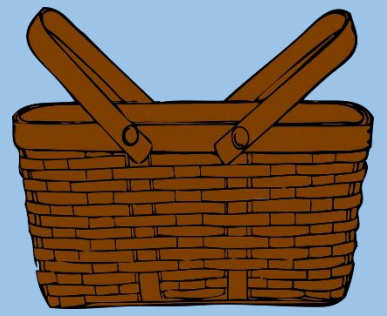
<u>Opening</u>: Grade 3 Target Number

Find as many representations as you can using a multiplication or division number sentence for the target number:

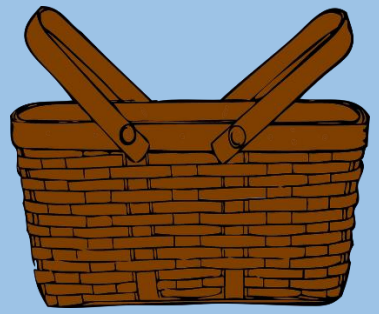
36

3rd Grade Problem of the Day

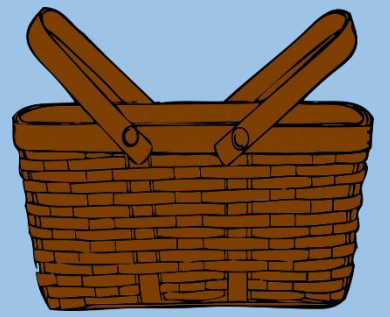
Kim baked 15 muffins. She put an equal number of muffins into 3 baskets.
She thinks, 3 times what number equals 15?



3 x __?__ =15
15 ÷ __?__ = 3



So, Kim put ____ muffins in each basket.



Use pictures, words, and/or numbers to justify your thinking.

Activities:

#1 Click here to watch the video OR See next slide for standard review.

#2 Then answer questions 1 – 5.

Activity # 1

Standard Review

Multiplication and division can both describe problems where there are equal groups. Either one can be used to solve a problem like this:

> Lola buys 16 apples. She puts the same number of apples in 4 bags. How many apples does she put in each bag?

You know the total (16 apples) and the number of groups (4 bags). You need to find the number in each group.

A multiplication equation for the problem is

$4 \times \square = 16$

$4 \times 4 = 16$

A division equation for the problem is

$16 \div 4 = \square$

$16 \div 4 = 4$

Lola puts 4 apples in each bag.

Ready® Mathematics

Lesson 5 Quiz

Assignment

Solve the problems.

1 Which multiplication equation can be used to solve each division problem?

Write the multiplication equation from the box that is related to each division problem. Not all answer choices will be used.

$9 \times \square = 36$	$36 \times 9 = \square$	$\square \times 18 = 9$
$9 \times 72 = \square$	$\square \times 9 = 72$	$18 = 9 \times \square$

$18 \div 9 = \square$ ⟷ _____

$72 \div 9 = \square$ ⟷ _____

$36 \div 9 = \square$ ⟷ _____

2 Which division equation can be solved using $3 \times \square = 27$?

A $27 \div 3 = \square$

B $3 \div 27 = \square$

C $\square \div 27 = 3$

D $\square \div 3 = 27$

Assignment

3 Diana bakes 14 bagels. She puts all of the bagels into 7 bags. Each bag has the same number of bagels. How many bagels does Diana put into each bag?

Write a division equation and a multiplication equation that you can use to solve the problem.

_____ $\div 7 =$ _____

$7 \times$ _____ $=$ _____

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Assignment

4 Sofia uses multiplication to solve division problems.

Which sentences are true? Circle all the correct answers.

A She can use $2 \times \square = 10$ to solve $10 \div 2 = \square$.

B She can use $5 \times 25 = \square$ to solve $25 \div 5 = \square$.

C She can use $\square \times 8 = 56$ to solve $56 \div 8 = \square$.

D She can use $42 \times \square = 7$ to solve $42 \div 7 = \square$.

E She can use $\square \times 27 = 3$ to solve $27 \div 3 = \square$.

Assignment

5 Lenny has 48 crackers divided into piles. There are 8 crackers in each pile. How many piles of crackers does Lenny have?

The division equation $48 \div 8 = \square$ shows the problem. Lenny wants to use multiplication to solve the problem. He thinks, "What number times 48 gives me 8?"

Explain why Lenny is not correct. What is the correct answer?

Answer: Lenny has _____ piles of crackers.

Reflection: **Today you have reviewed** using multiplication to find an unknown in a division equation. **What was one thing you did well with today's lesson? What is one thing you need additional help with?**

Write down the answers to these questions on a sheet of paper.

If internet is available, please
login to Dreambox and work for 10 minutes.

Great job, mathematicians! Please make sure you have written down your answers to each question from today's activities and place your work in your book bag to give to your teacher when you return to school.