## UNDERSTANDING MULTIPLICATION AND DIVISION

# HOW MANY GROUPS?

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# Today we will explore division as finding the number of equal groups.

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# TAKE OUT YOUR



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In the previous lessons, we figured out how many objects were in each group.

In this lesson, we are going to find the number of equal groups.

#### Let's do a quick review.



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There are two ways to think about division.

#### Partitive Division

"How many in each group?"

Solving to find how many objects belong in each group.

#### **Measurement Division**

"How many groups?"

Solving to find how many equal groups can be made.

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#### Today we are going to use the measurement division model.

Tina is making charms for a necklace. Each charm will have 3 beads. If Tina has 21 beads, how many charms will she make using all the beads?



Watch me as I create a division model, record a matching equation, and solve this problem.



I need to divide 21 beads into equal groups to find out how many groups (charms) Tina can make.

Each necklace charm is made up of 3 beads.



Beads



































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Let's do one together!







Model



**Donuts** 

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> This is a **measurement** division problem because we found out how many groups (bags) there were.



### CHECK - IN

# What did you notice? Can you make a connection to anything else you already know? How? Do you have any questions?

## IT'S YOUR TURN

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## Now It's "YOUR TURN" to Solve



#### Don't forget to explain your thinking!

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Will is decorating gingerbread men. He has 36 gumdrops. He needs 4 gumdrops for each gingerbread man. How many gingerbread men can he decorate? Draw a model and solve.



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The Tick Tock Shop received a shipment of 45 watches. There were 9 watches in each box. How many boxes did the shop receive? Draw a model and solve.

Model	<u>Equation</u>
	<u>Answer</u>



The Tick Tock Shop received a shipment of 45 watches. There were 9 watches in each box. How many boxes did the shop receive? Draw a model and solve.



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There are 28 markers in a closet. The markers are in cases. There are four markers in each case. How many cases of markers are in the closet? Draw a model and solve.



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There are 28 markers in a closet. The markers are in cases. There are four markers in each case. How many cases of markers are in the closet? Draw a model and solve.



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To play a game, every child needs 4 marbles. There are 24 marbles in a jar. How many children can play? Draw a model and solve.

Model	<u>Equation</u>
	Answer

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To play a game, every child needs 4 marbles. There are 24 marbles in a jar. How many children can play? Draw a model and solve.



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Blake has 56 pieces of candy. He wants to give 7 pieces of candy to each one of his teammates. How many teammates can Blake give candy to? Draw a model and solve.

Model

<u>Equation</u>	
Answer	



Blake has 56 pieces of candy. He wants to give 7 pieces of candy to each one of his teammates. How many teammates can Blake give candy to? Draw a model and solve.



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A librarian packed 40 books into boxes. If each box holds 8 books, how many boxes did she pack? Draw a model and solve.

<u>Model</u>	<u>Equation</u>
	Answer

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A librarian packed 40 books into boxes. If each box holds 8 books, how many boxes did she pack? Draw a model and solve.



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