Name: _	 			Period:	Date:
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Division: The Size of the Group Guided Notes Math 3

What is a size of a group?

In division, we look for factors by separating a total into equal groups of the same number of items in each group. Recalling the equal groups strategy, we can remember that a product can be solved visually by having equal groups of a certain number of items. This certain number of items in each group is called the size of the group. The size of the group is a factor of the total. Therefore, we can find the size of the group by dividing the total with a certain number of groups.

That means that the total is separated by how many groups there are. The items in each group are the size of the group, which is called the quotient.

We can read a division equation $A \div B = C$ as A separated into B groups to get the size, which is C.

For example, **15** ÷ **3** can be read as **15 separated into 3 groups.** The quotient will be **5** because separating **15** into **3** groups will have **5** items in each group.

Division: The Size of the Group Guided Notes

Math 3

For example:

Total

Number of groups

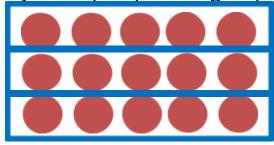
15

separated into 3 groups

First, draw 15 same-sized objects:



Then, separate the objects equally into 3 groups:



Count all the dots separated in each group:

There are $\frac{5}{2}$ dots in each group.

So, the size of the group is **5**.

Division: The Size of the Group Guided Notes

Math 3

Separate the dots into 7 groups



What is the size of each group?

Separate the dots into 5 groups



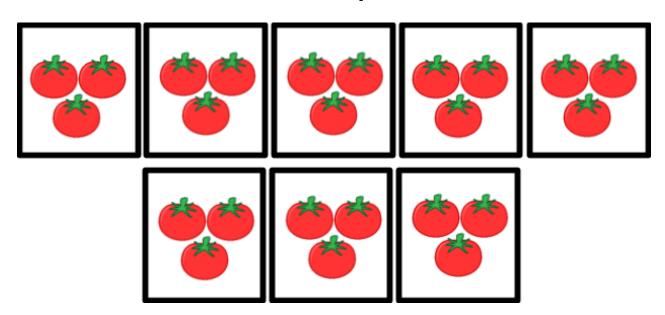
What is the size of each group?

Time to think

- 1. How would you write 27 separated into 9 groups as an expression?
- 2. How would you write 15 separated into 5 groups with a size of 3 as an equation?

Name: _____ Period: _____ Date: _____ Division: The Size of the Group Guided Notes Math

Math 3



There are _____ tomatoes separated into _____ groups.

What is the size of each group? _____

_____ ÷ ____ = ____



There are _____ stars separated into ____ groups.

What is the size of each group?

____ ÷ ___ = ____

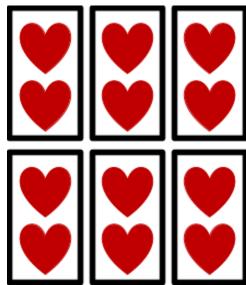
Name: _____

_____ Period: _____ Date: ____

Math 3

Division: The Size of the Group Guided Notes

Guided Notes



There are _____ hearts separated into ____ groups.

What is the size of each group? _____

_____ ÷ ____ = ____

How would you draw $21 \div 3$ into the same sized groups?

_____ is separated into _____ groups.

Each group has a size of _____.

How would you draw 32 ÷ 4 into the same sized groups?

_____ is separated into _____ groups.

Each group has a size of _____.

How would you draw $40 \div 8$ into the same sized groups?

_____ is separated into _____ groups.

Each group has a size of _____.

Name:	Period:	Date:	
Division: The Size of t			
Time to think			
1. If you add the size of the separated it, what will what will when the separated it, what will when the size of the separated it, what will when the separated it.		ow many groups	s you
2. Should the size of each	group be equ	al to each othe	r? Why?
Bryan has 24 buttons. He What is the size of each b	•	rate them into	3 bags.
Draw buttons sepa	rated into	bags.	

The size of each bag has _____ buttons.

Name:	_ Period:	Date:	
Division: The Size of the	Group	Guided Notes	Math 3

Time to Think

Using what we learned about the size of the group, answer these word problems:

1. Loren separates 16 matchsticks into 8 boxes. How many matchsticks are there in each box?

2. Gary has 36 marbles. He separates them into 9 containers. What is the size of each group?