

*Rabbit Hole Learning*

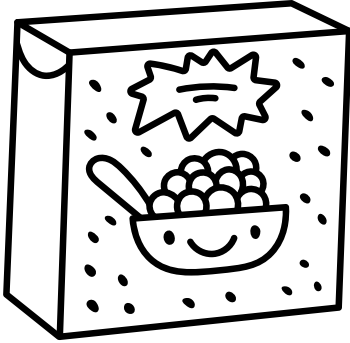
# **Fruitloop Math**

*Project Based Math*

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# Part 1: Make a Guess



Look at all the cereal in your box!  
How many loops do you think are in there? Lets make a guess about it and we'll see how close we are in the end!

I think there are

loops in my box of cereal.

**What clues helped you make your guess?**

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# Part 2: How Many?

How are we going to figure out how many loops are in our cereal! There are so many pieces it'll take forever to figure this out. Sketch out some ways we could make it easier.

# Part 2: How Many

Did you end up making piles in a certain amount?  
Write both an addition and multiplication  
sentence to show what you did.


**How Many Loops**



**Addition Sentence**



**Multiplication Sentence**



# Part 2: How Many

How far off was your original guess?

**The Bigger Number**

What sign do  
I need?

**The Smaller Number**

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**The Difference**

# Part 3: Sort and Predict

How many are there of each color? Lets write out our prediction!

**I predict there will be...**

**Red**

**Green**

**Orange**

**Blue**

**Yellow**

**Purple**

# Part 3: Sort and Predict

More Predictions!



**Will Have the MOST**



**Will Have the LEAST**

**Do you have any other predictions?**

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# Part 3: Sort and Predict

How many were there of each color? Let's write out our results!

There were **ACTUALLY...**

Red

Green

Orange

Blue

Yellow

Purple

# Part 3: Sort and Predict

Figure out the difference between your prediction and the actual amounts for each color.

Red

<input type="text"/>	<input type="text"/>	<input type="text"/>	=	<input type="text"/>
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Orange

<input type="text"/>	<input type="text"/>	<input type="text"/>	=	<input type="text"/>
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Yellow

<input type="text"/>	<input type="text"/>	<input type="text"/>	=	<input type="text"/>
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Green

<input type="text"/>	<input type="text"/>	<input type="text"/>	=	<input type="text"/>
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Blue

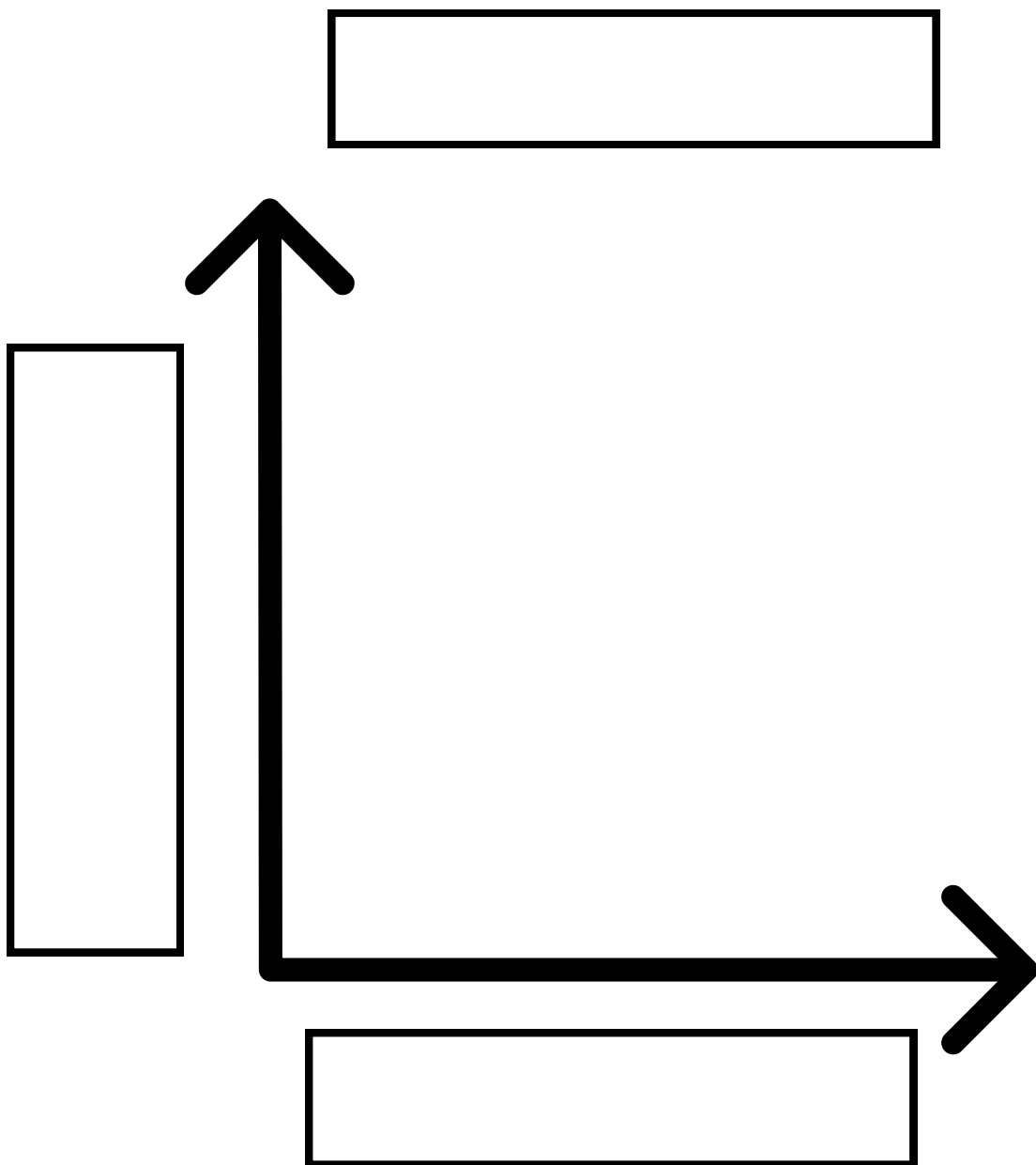
<input type="text"/>	<input type="text"/>	<input type="text"/>	=	<input type="text"/>
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Purple

<input type="text"/>	<input type="text"/>	<input type="text"/>	=	<input type="text"/>
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# Part 4: Graphing

Now we need to graph the amounts we figured out. First we need to figure out how to lay out our graph. Use the cut and paste labels on the next page or write in your answers.



Title of Graph

Scale for how many  
loops for each color

Colors of the Loops

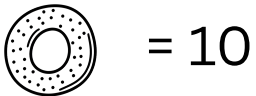
# Part 4: Graphing

Let's make a BIG pictogram first. In a pictogram each of our pictures will represent a certain amount. So if each loop represented 10 pieces and you had 30 pieces you'd use 3 loop pictures.

	Actual Number of Loops		How much each picture stands for		Number of Pictures Needed
Red	<input type="text"/>	÷	<input type="text"/>	=	<input type="text"/>
Orange	<input type="text"/>	÷	<input type="text"/>	=	<input type="text"/>
Yellow	<input type="text"/>	÷	<input type="text"/>	=	<input type="text"/>
Green	<input type="text"/>	÷	<input type="text"/>	=	<input type="text"/>
Blue	<input type="text"/>	÷	<input type="text"/>	=	<input type="text"/>
Purple	<input type="text"/>	÷	<input type="text"/>	=	<input type="text"/>

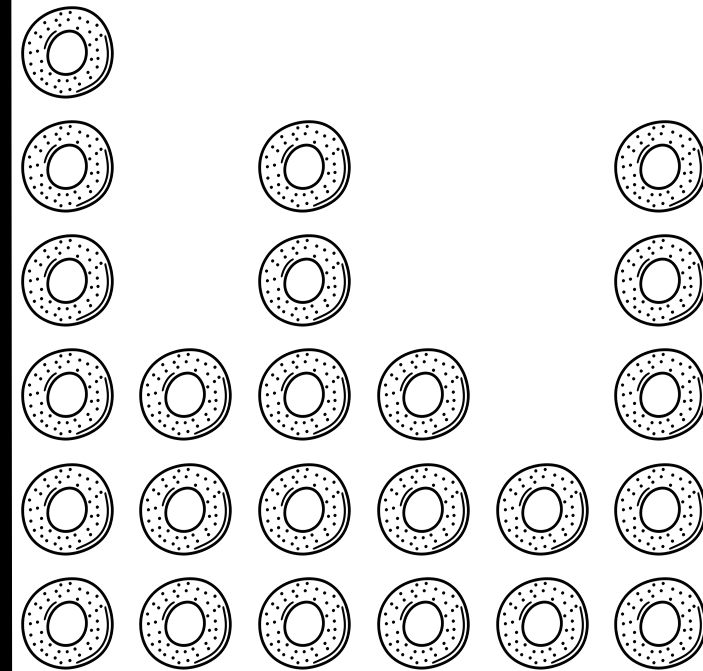
# Example Graph

Use something like rope, sticks, or string to make the x and y axis.



Fruits of Rainbow

How Many?



Red Orange Yellow Green Blue Purple

Colors



# Part 4: Graphing

Now Lets work on a bar graph. First we need to figure out the scale for our graph. Play around with the numbers until you figure out what works best for your numbers!

**I wrote a title**

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**I wrote a label for the X and Y axis**

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**I wrote a scale that makes sense**

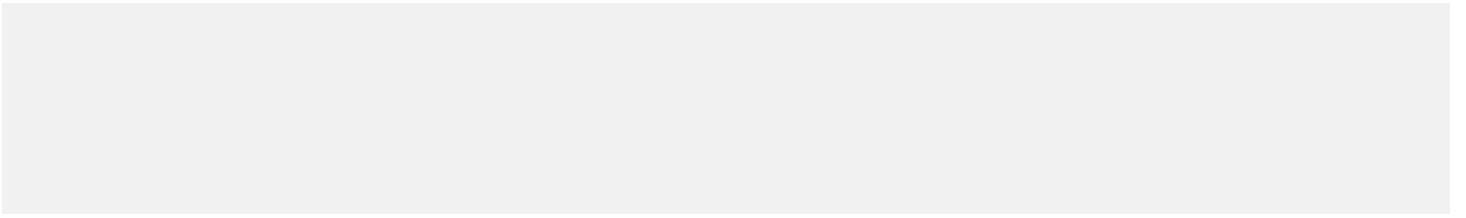
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**I made the bars for each color**

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**I ate my fruit loops!**

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Red

Orange

Yellow

Green

Blue

Purple