

Build your own Strip Diagram Chart

The main idea is that in a strip diagram the two “strips” need to be equal. Strip diagrams are a visual way to learn how to set up an equation for a word problem.

Scholars will create this “cheat sheet” which they can use, if they need it, for the rest of the work in this unit.

This chart will help them learn how to represent the main kinds of problems in this unit.

Scholars can keep their chart in their work folder and refer back to it, if they need it, for examples of how to work the other problems in the unit.

Instructions:

First figure out the side with no numbers. Help the scholars complete the strip diagram without numbers

Then turn it over and complete the strip diagrams with numbers and write the accompanying equation.

If you think it will benefit your scholar, bring some manipulatives. Get 60 “beans” and 3 zip lock bags and have your scholar “act out” the problems with the beans to help them visualize.

IMPORTANT: A very common problem scholars have with working out multiple step word problems is that they stop after the first step. The test makers know this, so they almost always have that as one of the multiple choice incorrect answers. So please emphasize that they always need to check and make sure they have done the WHOLE problem.

*** Scholars can keep their completed copies of the chart
in their folders for future reference. ***

No Numbers

Fred had a bag of candy. He ate part of it. How much does he have left?

Whole bag of candy	
Part Fred ate	Part that's left

Fred had a bag of candy. He ate part of it. He divided the rest between his two brothers.

Whole bag of candy	
Part Fred ate	Part for brother
	Part for brother

Fred had 3 bags of candy. How much candy does he have in all?

Bag	Bag	Bag
Total amount of candy Fred has in all		

Fred had 3 bags of candy. He divided it evenly among his 5 best friends.

Bag	Bag	Bag
Amount for friend	Amount for friend	Amount for friend

Fred had 3 bags of Candy. He ate part of it, and he divided the rest evenly among his 5 best friends.

Bag	Bag	Bag
Part Fred ate	Amount for friend	Amount for friend
	Amount for friend	Amount for friend

With Numbers

Fred had a bag of 20 pieces of candy. He ate 10 pieces. What is c , the amount of candy Fred has left?

Whole bag of candy (20)	
Part Fred ate (10)	Part that's left (c)

Equation: $20 - 10 = c$

Fred had a bag of 20 pieces of candy. He ate 10 pieces. He divided the rest evenly between his two brothers.. What is b , the amount each brother got? .

Whole bag of candy (20)		
Part Fred ate (10)	Part for brother (b)	Part for brother (b)

Equation: $20 - 10 = 10$. $10 \div 2 = b$

Fred had 3 bags of candy with 20 pieces in each. What is c , the amount of candy Fred has in all?

Bag (20)	Bag (20)	Bag (20)
Total amount of candy Fred has in all (c)		

Equation: $20 + 20 + 20 = c$

Fred had 3 bags of candy with 20 pieces in each. He divided it evenly among his 5 best friends. What is f , the amount of candy each friend received?

Bag (20)	Bag (20)	Bag (20)
Amount for friend (f)	Amount for friend (f)	Amount for friend (f)

Equation: $20 + 20 + 20 = 60$. $60 \div 5 = f$

Fred had 3 bags of Candy with 20 pieces of candy in each. He ate 10 pieces., and he divided the rest evenly among his 5 best friends. What is f , the amount of candy each friend received?

Bag (20)	Bag (20)	Bag (20)
Part Fred ate (10)	Amount for friend (f)	Amount for friend (f)
	Amount for friend (f)	Amount for friend (f)

Equation: $20 \times 3 = 60$. $60 - 10 = 50$. $50 \div 5 = f$

Fred had a bag of candy. He ate part of it. How much does he have left?

Fred had a bag of candy. He ate part of it. He divided the rest between his two brothers.

Fred had 3 bags of candy. How much candy does he have in all?

Fred had 3 bags of candy. He divided it evenly among his 5 best friends.

Fred had 3 bags of Candy. He ate part of it, and he divided the rest evenly among his 5 best friends.

Fred had a bag of 20 pieces of candy. He ate 10 pieces. What is c , the amount of candy Fred has left?

Equation:

Fred had a bag of 20 pieces of candy. He ate 10 pieces. He divided the rest evenly between his two brothers, Pete and Ralph. What is b , the amount each brother got? .

Equation:

Fred had 3 bags of candy with 20 pieces in each. What is c , the amount of candy Fred has in all?

Equation:

Fred had 3 bags of candy with 20 pieces in each. He divided it evenly among his 5 best friends. What is f , the amount of candy each friend received?

Equation:

Fred had 3 bags of Candy with 20 pieces of candy in each. He ate 10 pieces., and he divided the rest evenly among his 5 best friends. What is f , the amount of candy each friend received?

Equation: