**Student Activity Guide**

By Trey Cox and Shannon Bishop

Watch the "Sugar Packets" Video Labeled Act One:

On your own (without any help from other students):

1) Make a guess as close as you can for how many packets of sugar is in a 20 oz. soda.

2) Make a sensible estimate of how many sugar packets there are in a 20 oz. soda that you know to be too large – What makes you confident that it's too large?

3) Make a sensible estimate for how many sugar packets there are in a 20 oz. soda that you know to be too small – What makes you confident that it's too small?

4) What information do you need to solve this problem? We are not looking for "the answer" but rather what do you need to know in order to get started on the problem?

5) Team up with two or three other students and use the information provided to answer the question: "How many sugar packets are in a 20oz bottle of soda?"

Watch - THE ANSWER!

Over →

In small groups, discuss the following:

6) The relationship between number of grams of sugar in a 20oz soda and number of packets is "proportional." Write, in your own words, what it means to be "proportional."

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Follow up activity/homework: Assume that the ratios/work done in this activity are still true.

1. Using proportional reasoning, estimate how much sugar in a 12-ounce can of soda. How much sugar is there in a 44-ounce Thirstbuster?

2. Investigate how much sugar is in a 20-ounce bottle of Mountain Dew, Dr. Pepper, Sprite, and your favorite soda or beverage.

3. What kind of food is equivalent to 50 packets of sugar?