Use Frequency Tables

A **frequency table** is a way to show how often each number in a set of numbers occurs. The first column of a frequency table shows all of the different numbers in the set. The second column shows how many times each number occurs.

The table at the right shows the length of time it usually takes each student in a class to travel to school in the morning. How many more students take $\frac{1}{6}$ hour to travel than take $\frac{1}{12}$ hour?

Morning Travel Time	
Time (in hours)	**Frequency**
$\frac{1}{12}$	5
$\frac{1}{6}$	7
$\frac{1}{4}$	4

Read	Solve
What do I need to find? How many more students take $\frac{1}{6}$ hour to travel to school than take $\frac{1}{12}$ hour?	In the table, find the number of students who take $\frac{1}{6}$ hour and $\frac{1}{12}$ hour. **Think:** 7 students take $\frac{1}{6}$ hour. 5 students take $\frac{1}{12}$ hour. Subtract the number of students who take $\frac{1}{12}$ hour from the number who take $\frac{1}{6}$ hour. $7 - 5 = 2$ So, 2 more students take $\frac{1}{6}$ hour to travel than take $\frac{1}{12}$ hour.
What information am I given? data about the lengths of time it takes all of the students to travel	
Plan	
What is my plan or strategy? Subtraction is used to compare. I will subtract the number of students who take $\frac{1}{12}$ hour from the number of students who take $\frac{1}{6}$ hour.	

1 How many more students take $\frac{1}{12}$ hour to travel than take $\frac{1}{4}$ hour?

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2 How many fewer students take $\frac{1}{4}$ hour to travel than take $\frac{1}{6}$ hour?

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