

Name: _____

Date _____

Decomposing Numbers Step-by-Step Lesson

1. Which picture shows that $5 + 3 = 8$?



Answering # 1: The model that we are looking for has to have 3 key parts:

- 1) a piece composed of 5 parts.
- 2) a piece composed of 3 parts.
- 3) have a total number of 8 parts.

Looking at the pictures above, we can see that the parts are made of gray and white blocks. Now we need to find a model that matches.

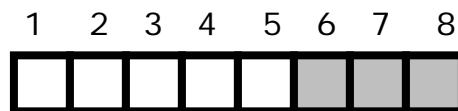
Looking at "a" we can see that it meets the pattern.



Counts of Colors 1 2 3 4 5 1 2 3

5 white blocks 3 gray blocks

Total Number of Blocks = 8 blocks



2. How do you make 8?

- a) $5 + 4$ c) $6 + 2$
b) $4 + 3$ d) $3 + 3$



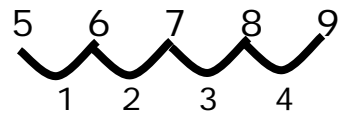
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Answering # 2: To do this we add the two numbers. Adding can be seen as counting up from a starting number. Look at letter a:

$$5 + 4$$

5 would be our starting number. 4 would be the number of times we need to count up. Let's see how it looks in action below:



Our ending number is 9. That means that $5 + 4 = 9$.

We will do the same for all the choices in the problem, until we find one where our ending number is 8.

Letter c is the answer = $6 + 2$

We can check it below:

