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**Warm UP – Writing addition & Subtraction Expressions**

**Part A**

Create a bar diagram to show 3 plus 5 and write an expression.

Create a bar diagram to show 5 plus 3 and write an expression.

Are these two expressions the same? How do you know?

What are other ways we can say “3 plus 5”?

**Part B**

How can we show 10 minus 6? (Use any diagram you like).

Write an expression to represent this model.

Is that expressions the same as 6 minus 10? Explain. Support your answer with a model.

What are other ways we can say “10 minus 6”?

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**Lesson: Writing Addition & Subtraction Expressions**

1. Here is the expression:$3$ ***less than a number*.**

* Are we taking away from the $3$ or the unknown number?
* What expression would this represent?

2. How would we write an expression to show ***the number*** $c$ ***being subtracted from the sum of*** $a$ ***and*** $b$?

* Start by writing an expression for “the sum of $a$ and $b$.”
* Now, show $c$ being subtracted from the sum.

3. Write an expression to show ***the number*** $c$ ***minus the sum of*** $a$ ***and*** $b$.

* Why are the parentheses necessary in this example and not the others?
* Replace the variables with numbers to see if $c-(a+b)$ is the same as $c-a+b$.

4. Write an expression to show ***the sum of*** $7$ ***and*** $1.5$.

5. Write two expressions to show $w$ ***increased by*** $4$.

6. Write an expression to show ***the sum of*** $a$***,*** $b$***, and*** $c$***.***

7. Write an expression showing $3$ ***less than*** $p$***.***

8. Write an expression to show ***the difference of*** $3$ ***and*** $p$.

9. Write an expression to show $4$ ***less than the sum of*** $g$ ***and*** $5$.

1. Write an expression to show $4$ ***decreased by the sum of*** $g$ ***and*** $5$***.***

11.Should Exercises 9 and 10 have different expressions? Why or why not?

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**HOMEWORK – WRITING ADDITION & SUBTRACTION EXPRESSIONS**

1. Write two expressions to show **a number increased by** $11$. Then, draw models to prove that both expressions represent the same thing.
2. Write an expression to show **the sum of** $x$ **and** $y$**.**
3. Write an expression to show $h$ **decreased by** $13$.
4. Write an expression to show $k$ **less than** $3.5$.
5. Write an expression to show **the sum of** $g$ **and** $h$ **reduced by** $11$.
6. Write an expression to show $5$ **less than** $y$**, plus** $g$.
7. Write an expression to show $5$ **less than the sum of** $y$ **and** $g$.