

Show Me the Sign Part 1

Use the bead string and rekenrek to complete the following.

- Using positive integers, find all the combinations with a sum of 5. Explain what method you used to find the pairs.

Integers	Sum	Equation	Method

- What conclusions can you make about the positive integers?

- Using positive and negative integers, find four pairs of integers with a sum of 5. Explain what method you used to find the pairs.

Integers	Sum	Equation	Method

- What conclusions can you make about the positive and negative integers? Is there a pattern?

5. Find a pair of negative integers with a sum of 5. What do you notice about the result? Explain your findings.
6. Find five pairs of integers with a sum of -6. What do you notice about each pairs of integers?
7. What generalizations can you make about adding integers?
For the following examples, write an equation (show numerically) and draw a model using a bead string or rekenrek to help explain your answer.
- a) Explain $a + b$ if both a and b are positive numbers.
- b) Explain $(a) + (b)$ if a and b both represent negative numbers.
- c) Explain $a + (b)$ if a represents any positive number and (b) represents any negative number.
- d) Explain $b + (a)$ if b represents any positive number and (a) represents any negative number.
- e) Explain $a + b + c$ if a and b represent positive numbers and (c) represents a negative number.