Activity 4 Assessment
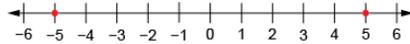## Representing Integers

Exploring Integers

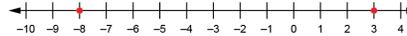| Describes integers in terms of a positive or negative distance from zero.	Understands that an integer and its opposite are the same distance from zero but on opposite sides of zero.	Recognizes that the value of negative numbers decreases as the number of digits increases.	Compares and orders positive and negative integers.
"−5 is 5 units to the left of 0 on a horizontal number line. +3 is 3 units to the right of 0."	"Negative 5 is the same distance from zero as positive 5."	"−8 is less than +3 because it is less than zero: −8 < 3."	−5, 0, −2, 5, −1 "From least to greatest: −5, −2, −1, 0, 5"

Observations/Documentation

Exploring Integers (cont'd)

Adds integers with like signs concretely or pictorially (e.g., using counters or number lines).	Recognizes that the sum of a number and its additive inverse is 0.	Adds integers with different signs concretely (e.g., using counters and zero pairs or number lines).	Flexibly adds integers and solves addition story problems.
$-3 + (-2) = -5$ "The sum of two negative integers is negative."	$-3 + (+3) = 0$ "Adding an integer and its opposite gives 0."	$4 + (-1) = 3$ "I moved right to model +4, then left to model −1. I ended up at +3."	$-6 + 2$ "I think of it as the sum of 0 and another integer." $-6 + 2 = (-4 + (-2)) + 2$ $= -4 + (-2 + 2)$ $= -4 + 0$ $= -4$
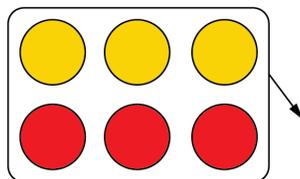
Observations/Documentation

Mathology 6 Alberta
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