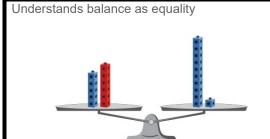
### **Activity 13 Assessment**

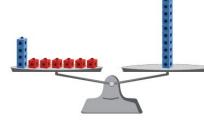
#### Consolidation

### Solving One-Step Addition and Subtraction Equations



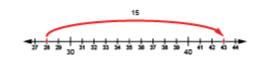
"5 + 6 equals 11."

Uses concrete materials to solve for unknown



 $4 + \Box = 10$  "I added red cubes, one at a time, until the pans balanced;  $\Box = 6$ ."

Uses number relationships (inverse operations)



 $28 = \square - 15$  "I rewrote the equation as an addition equation:  $28 + 15 = \square$ ."

#### **Observations/Documentation**

# **Activity 13 Assessment** Consolidation

Solving One-Step Addition and Subtraction Equations (con't)					
Decomposes and recomposes numbers (uses associative property)	Describes a situation for a given equation with an unknown	Uses strategies efficiently and flexibly to solve equations of different types (start, result, and change unknown)			
28 + 15 = 28 + 2 + 13	20 − □ = 13	change unknown,			
28 + 2 + 13 = 30 + 13 30 + 13 = 43	"I had \$20. I spent some money and now I have \$13.	$27 = \Delta - 18$ "I rewrote using addition: $27 + 18 = \Delta$ .			
	How much did I spend?"	Then, I used mental math: $27 + (18 + 2) = 47$ , and $47 - 2 = 45$ ."			
Observations/Documentation					
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# **Activity 13 Assessment** Consolidation

Variables and Symbols					
Uses equal sign as balance (left side equals right side) and not equal sign as imbalance $18+16=10+24$ $18+16\neq 24-10$ "The equal sign means that the numbers on both sides are worth the same amount."	Uses symbols to represent unknown quantities  18 + □ = 34  "I used a box to represent the unknown, but I could have used a different shape."	Understands the unknown represents one quantity/value  18 + □ = 34  "The box represents a number that would be added to 18 to make 34. No matter what the symbol is, it will always represent 16."	Solves equations flexibly $18 + \square = 34$ $34 - \square = 18$ $34 - 18 = \square$ "In all of these equations, the symbol represents the same number, 16."		
Observations/Documentation					