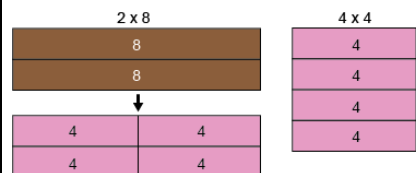


Activity 8 Assessment

Equivalent Expressions

Identifying Equivalent Expressions

Models expressions concretely to determine equivalence



"I could trade rods for other rods to make both models look the same. So, 2×8 and 4×4 are equivalent."

Use number relationships or mental math strategies to determine equivalence

$$9 + 7 \text{ and } 42 - 27$$

" $9 + 7$: take 1 from 9 and give it to 7 to make $8 + 8$, or 16.

$42 - 27$: add 3 to each number to make $45 - 30$, or 15.

Since 15 doesn't equal 16, the expressions are not equivalent."

Uses equal sign as balance (left side equals right side) and not equal sign as imbalance

$$2 \times 8 = 4 \times 4$$

$$9 + 7 \neq 42 - 27$$

"The equal sign means that the expressions on both sides are worth the same amount."

Records an equation with an unknown to match a given situation

"I started with 12 stickers.
My friend gave me some more.
Now I have 21 stickers.

$$12 + \blacksquare = 21$$

I used a box to represent the unknown, but I could have used a different shape."

Observations/Documentation