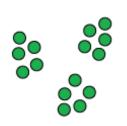
Activity 32 Assessment

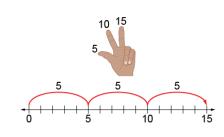
Building Fluency: The Games Room

Developing Fluency with Multiplication and Division

Models with concrete materials and counts by 1s



Uses skip-counting forward and backward



Works flexibly with numbers (e.g., uses repeated addition or subtraction, familiar facts, commutative property)

"
$$5 + 5 + 5 = 15$$

I know 2 \times 5 = 10 and one more group of 5 is 15, so 3 \times 5 = 15.

I know $5 \times 3 = 15$, so 3×5 also equals 15."

Observations/Documentation

Activity 32 Assessment

Building Fluency: The Games Room

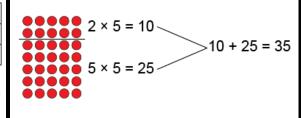
Developing Fluency with Multiplication and Division (con't)

Uses familiar facts to solve ratios

1	2	3	4	5
× 5	× 5	× 5	× 5	× 5
5	10	15	20	25

"The ratio is 1:5. That means I multiply by 5. 2×5 = 10, so 2:10. 3×5 = 15, so 3:15."

Uses distributive property to help with unfamiliar facts



" $7 \times 5 = 35$ "

Fluently multiplies and divides

"I just know that $7 \times 5 = 35$."

Observations/Documentation