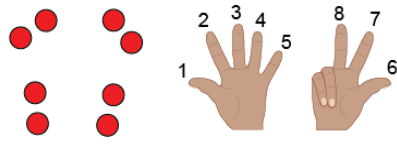
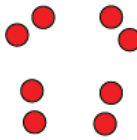
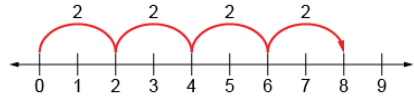
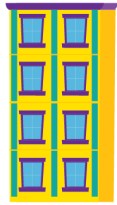
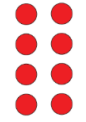


# Activity 31 Assessment

## Creating and Solving Problems

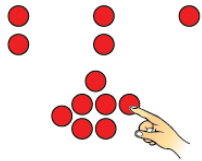
Multiplying 1-Digit Numbers			
<p>Groups objects and counts by 1s</p> 	<p>Groups objects and skip-counts</p>  <p>"2, 4, 6, 8"</p>	<p>Uses repeated addition</p>  <p>"2 + 2 + 2 + 2 = 8."</p>	<p>Models using multiplicative thinking</p>  <p>"4 rows of 2 is 8."</p>
Observations/Documentation			
<p>Understands relationship between operations</p> <p>"I can think of <math>2 + 2 + 2 + 2 = 8</math> as 4 groups of 2."</p> 	<p>Uses multiplication symbol</p> <p>"<math>4 \times 2 = 8</math>"</p>	<p>Multiplies fluently (e.g., uses properties of multiplication)</p> <p>"<math>4 \times 2 = 8</math> <math>2 \times 4 = 8</math>"</p>	<p>Creates and solves problems involving equal groups</p> <p><math>4 \times 2 = 8</math></p> <p>"There are 4 bicycles in the shed. How many wheels are there altogether?"</p>
Observations/Documentation			

# Activity 31 Assessment

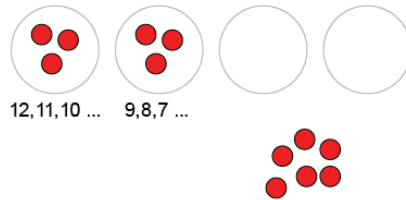
## Creating and Solving Problems

### Dividing 1-Digit Numbers

Models using equal sharing

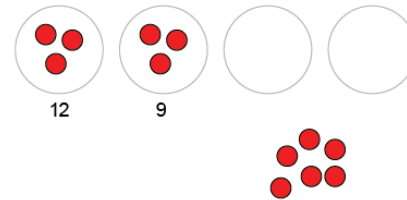


Models using equal grouping, counting by 1s

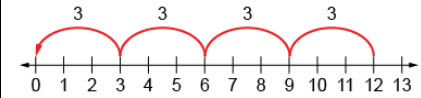


"I know 3 go in each group."

Models using equal grouping, skip-counting backward



Uses repeated subtraction

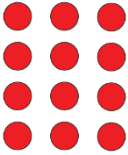
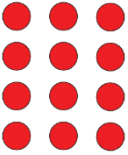


"4 jumps of 3 backward is the same as  $12 - 3 - 3 - 3 - 3 = 0$ ."

### Observations/Documentation

# Activity 31 Assessment

## Creating and Solving Problems

Dividing 1-Digit Numbers (con't)			
<p>Models using multiplicative thinking, and uses division symbol</p>  <p>“12 divided into groups of 3 is 4 groups  <math>12 \div 3 = 4.</math>”</p>	<p>Divides fluently</p> <p>“I know <math>12 \div 4 = 3,</math>  so <math>12 \div 3 = 4.</math>”</p>	<p>Creates and solves problems involving equal sharing and grouping</p>  <p>“There are 12 wheels on tricycles in the shed.  How many tricycles are there?”</p>	<p>Understands relationships among operations</p> <p>“I know <math>12 - 3 - 3 - 3 - 3 = 0,</math>  so I also know that <math>12 \div 3 = 4.</math>  I also know that <math>4 \times 3 = 12</math>”</p>
Observations/Documentation			