

# Activity 29 Assessment

## Using Mental Math to Calculate Percents

Calculating Percents using Mental Math			
<p>Explores number patterns and relationships.</p> <p>100% of 360 = 360                      50% of 360 = 180                      25% of 360 = 90                      12.5% of 360 = 45</p> <p>What patterns do you see?</p> <p>“I see that the percent is halved each time and when this happens, the product is also halved.”</p>	<p>Uses number patterns and relationships to solve problems.</p> <p>50% of 80 = ?</p> <p>10% is the same as 0.1 and                      50% is the same as 0.5.</p> <p>So, 50% of 80 = <math>5 \times 0.1 \times 80</math>  <math>= 5 \times 8</math>  <math>= 40</math></p>	<p>Uses mental math strategies and checks for reasonableness.</p> <p>Find 14% of \$300  <math>14\% = 10\% + 5\% - 1\%</math>                      10% of \$300 = \$30                      5% of \$300 = \$15                      1% of \$300 = \$3</p> <p>So, 14% of \$300 = <math>\\$30 + \\$15 - 3</math>  <math>= \\$42</math></p>	<p>Fluently calculates percents using a variety of mental math strategies</p> <p>8% of 260 = ?</p> <p>8% of 260 = <math>(10\% - 2\%)</math> of 260  <math>= 10\%</math> of 260 - <math>2\%</math> of 260  <math>= 26 - 2(2.6)</math>  <math>= 26 - 5.2</math>  <math>= 20.8</math></p>
Observations/Documentation			