Number

Activity 17 Assessment Using Mental Math to Calculate Percents

Calculating Percents using Mental Math			
Explores number patterns and relationships.	Uses number patterns and relationships to solve problems.	Uses mental math strategies and checks for reasonableness.	Fluently calculates percents using a variety of mental math strategies.
100% of 360 = 360 50% of 360 = 180 25% of 360 = 90 12.5% of 360 = 45 What patterns do you see? "I see that the percent is halved each time and when this happens, the product is also halved." (« Je vois que le pourcentage est réduit d'une moitié chaque fois et lorsque cela se produit, le produit est également réduit d'une moitié. »)	50% of 80 = ? 10% is the same as 0.1 and 50% is the same as 0.5. So, 50% of 80 = 5 × 0.1 × 80 = 5 × 8 = 40	Find 14% of \$300 14% = 10% + 5% - 1% 10% of \$300 = \$30 5% of \$300 = \$15 1% of \$300 = \$3 So, 14% of \$300 = \$30 + \$15 - 3 = \$42	8% of 260 = ? 8% of 260 = (10% - 2%) of 260 = 10% of 260 - 2% of 260 = 26 - 2(2.6) = 26 - 5.2 = 20.8
Observations/Documentation			