Activity 2 Assessment

Solving Problems

Extending Patterns to Solve Problems				
Determines the pattern rule. 5, 10, 15, 20, 25, 30, 35, 40	Uses pattern rule to determine Extends patterns using mathematical expressions.	Flexibly describes and solves problems using mathematical expressions and properties.		
"The term numbers are consecutive multiples of 5."	Term510152530Term16316176"The pattern rule for the term numbers is: Skip count by 5s. So, the missing term is 20. The pattern rule for the term values is: Multiply the term number by 3, then add 1. The missing term values are: $15 \times 3 + 1 = 46$ and $30 \times 3 + 1 = 91$."Graph B"I can use the expression $3n + 2$ to extend the pattern, where n represents the term number. The seventh and eighth terms would 	Zac earned \$504 to buy games for a children's hospital. Each game costs \$64. How many games can Zac buy? $\frac{1}{64} \frac{1}{64} \frac{1}{64} \frac{1}{64} \frac{1}{2} \frac{1}{28} \frac{1}{376} \frac{1}{3} \frac{1}{192} \frac{1}{312} \frac{1}{4} \frac{256}{248} \frac{248}{5} \frac{1}{320} \frac{1}{184} \frac{1}{66} \frac{1}{384} \frac{1}{120} \frac{1}{7} \frac{1}{448} \frac{1}{56} \frac{1}{56} \frac{1}{3} \frac{1}{56} \frac{1}{5$		
Observations/Documentation				

Activity 2 Assessment Solving Problems



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Number Pattern Relationships (cont'd)			
Creates and translates repeating, increasing, and decreasing patterns and describes them using algebraic expressions and equations. $ \frac{4^{4}}{20} + \frac{6^{4}}{12} + 6^{$	Describes patterns to show relationships among whole numbers and decimals with tenths, hundredths, and thousandths. 3.004 - 0.004 = 3.000 3.004 - 0.003 = 3.001 3.004 - 0.002 = 3.002 3.004 - 0.001 = 3.003 3.004 - 0.000 = 3.004 "As the number that is subtracted decreases by 0.001, the difference increases by 0.001."	Fluently identifies and describes linear and non- linear patterns and justifies choice of representation to show pattern relationships. Students raised \$180 to buy 8 games that cost \$26 each. Do they have enough money? $\frac{1 26}{2 52}$ $\frac{3}{3} 78}{4 104}$ $\frac{4 104}{5 130}$ $\frac{6}{6} 156}{7 182}$ "This is a linear pattern where \$26 dollars is added each time. I used the equation <i>c</i> = 26 <i>n</i> to determine the cost of <i>n</i> games in dollars, where <i>n</i> = 8: <i>c</i> = 26 × 8, which is \$208. There is not enough money to buy games for 8 classes. Only 6 classes can have a game."	
Observations/Documentation			