Patterns and Relations

Activity 10 Assessment

Writing and Solving Equations to Solve Problems

Writing and Solving Equations to Solve Problems			
Solves one-step equations $28 - t = 12$ "I know 28 – 8 = 20. So, t must be more than 8. 28 – 10 = 18 (too high) 28 – 15 = 13 (too high, but close) So, n = 16 because 28 – 16 = 12."	Solves multi-step equations $6h - 12 = 48$ $6h - 12 = 48$ $6h - 12 + 12 = 48 + 12$ $6h = 60$ $\frac{6h}{6} = \frac{60}{6}$ $h = 10$ "I used preservation of equality and performed the same operation on both sides of the equation each time."	Verifies that the solution to an equation is correct $6h - 12 = 48$, $h = 10$ I substituted 10 for h in the original equation and compared each side L.S. = $6h - 12$ = $6(10) - 12$ = $60 - 12$ = 48 R.S. = 48 "Since L.S. = R.S., the solution is correct."	Writes and solves equations to solve word problems Craig works for a dog-walking company. Craig earns $25 a day, plus $5 for every dog he walks. On Thursday, Craig earned $70. How many dogs did Craig walk? $70 = 25 + 5d$, where d represents the number of dogs Craig walked. $70 - 25 = 25 - 25 + 5d$ $45 = 5d$ $d = 9$ Craig walked 9 dogs.
Observations/Documentation			