Algebra

Activity 5 Assessment

Evaluating Expressions and Writing Equations

Evaluating Expressions and Writing Equations			
Explains the difference between an expression and an equation "An equation has an equal sign to show that the numbers and expressions on both sides are equal. $2 \times 4 = x - 2$ is an equation."	Uses a pattern rule that is provided to solve a problem Ava makes and sells cards at craft shows. They have 10 left from the last show and make 3 new ones each day. The number of cards Ava will have in d days is $10 + 3d$. How many cards will Ava have in 15 days? "When $d = 15$, $10 + 3d = 10 + 3(15)$ $= 10 + 45$ $= 55$ In 15 days, Ava will have 55 cards."	Writes a pattern rule to represent a scenario and solve a problem If Mac walks 5 km every week, how far will they walk in n weeks? In a year? "In n weeks, Mac will walk $5n$ kilometres. There are 52 weeks in a year. When $n = 52$, $5n = 5(52)$ $= 260$ In 1 year, Mac will walk 260 km."	Writes an equation to represent a scenario and solves it using informal methods If Mac walks 5 km every week, how many weeks will it take Mac to walk 150 km? "I need to find a number that makes $5n = 150$ true. I know $5 \times 10 = 50$ and there are three 50s in 150. So, it will take 3×10, or 30 weeks for Mac to walk 150 km."
Observations/Documentation			