Patterns and Relations

Activity 5 Assessment

Evaluating Expressions and Writing Equations

Evaluating Expressions and 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	Evaluates an expression when given the value of the variable To determine the value of the expression $3k + 2$ when $k = 5$, I replace the k with 5. $3k + 2 = 3(5) + 2$ $= 15 + 2$ $= 17$	Uses expressions to represent real-life situations and solve problems Every week, Mac walks 5 km. In n weeks, they will walk $5n$ kilometres. There are 52 weeks in a year. When $n = 52$, $5n = 5(52)$ $= 260$ In 1 year, they will walk 260 km.	Uses equations to represent real-life situations and solve problems using guess and check or other informal solution methods 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.
Observations/Documentation			