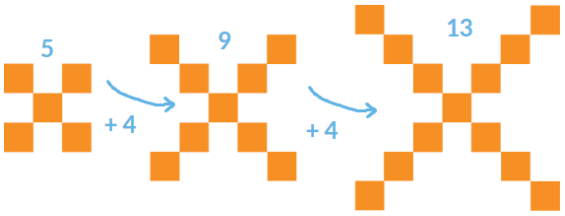
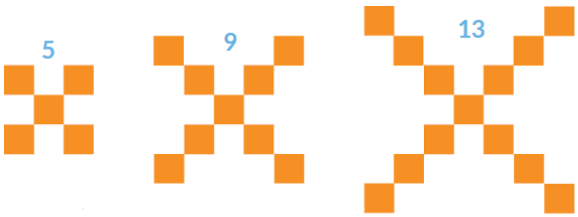
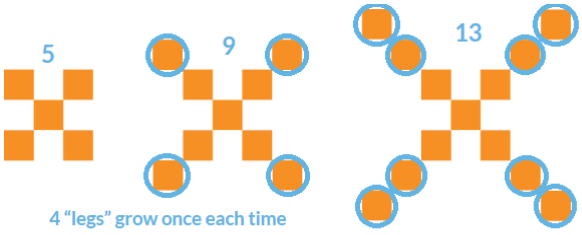
PREREQUISITE STANDARDS	EVIDENCE OF UNFINISHED LEARNING	STUDENT WORK EXAMPLE
6.RP.A: Understand ratio concepts and use ratio reasoning to solve problems. **6.EE.C:** Represent and analyze quantitative relationships between dependent and independent variables.	• Students frequently mistake multiplicative relationships for additive ones (6.RP.A). • Students reverse the independent and dependent variable when graphing or writing equations (6.EE.C.9). • During visual pattern routines, students can identify a recursive pattern, like "add 4," but have trouble connecting the step number to the number of shapes in the pattern.	 Can you figure out how many shapes would be in... • The next step? $13 + 4 = 17$ • The 10th step? $10 + 4 = 14$ • The *n*th step? $n + 4$
7.EE.B: Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	• Students are having trouble writing equations for scenarios that involve both a multiplicative relationship (coefficient) and an additive one (constant).	 Can you figure out how many shapes would be in... • The next step? 17 • The 10th step? 41 • The *n*th step? $n + 4$ Step / Squares 1 / 5 2 / 9 3 / 13 4 / 17 5 / 21 6 / 25 7 / 29 8 / 33 9 / 37 10 / 41
7.RP.A: Analyze proportional relationships and use them to solve real-world and mathematical problems. **8.EE.B:** Understand the connections between proportional relationships, lines, and linear equations.	• Students understand a single ratio or rate, but can't yet represent a consistent proportional relationship between quantities (7.RP.A). • Students understand verbal descriptions, tables, graphs, and equations in isolation, but have trouble connecting them to each other (8.EE.B.5). • During visual pattern routines, students see a connection between the step number and the number of shapes in a pattern for proportional relationships, but they can't consistently write an expression to represent the rule.	 Can you figure out how many shapes would be in... • The next step? 17 • The 10th step? $13 + (4 \times 7) = 41$ • The *n*th step? $5 + 4n$