

# MORE ON INDUCTIVE REASONING

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# Look for a pattern...

Guess the next number  
(support your answer):

1, 2, 4, ?

Given the following:

$$4 * 5 = 0$$

$$9 * 1 = 1$$

$$0 * 8 = 3$$

$$1 * 2 = 0$$

$$1 * 0 = 1$$

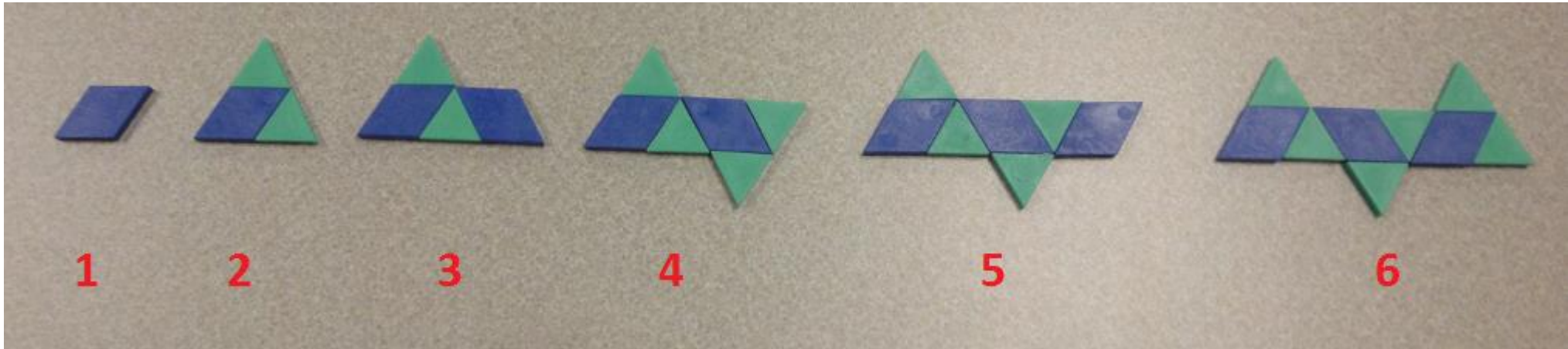
What is the value of  $6 * 7$  ?

p. 13, Number 3

**When two pieces of rope are placed end to end, their combined length is 130 feet.**

**When the two pieces are placed side by side, one is 26 feet longer than the other.**

**What are the lengths of the two pieces?**



- (a) Use pattern blocks to build figures 8 and 9 in the sequence.
- (b) Describe the pattern in words.
- (c) How many triangles and parallelograms are in the 20<sup>th</sup> figure?
- (d) How many pattern blocks are in the 45<sup>th</sup> figure?