

Grade 3 Answers

Geometric Patterns

Explore and Grow

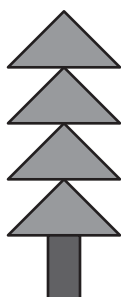
Sample answer: One orange square is added to the top and one orange square is added to the bottom of a figure to make the next figure in the pattern.



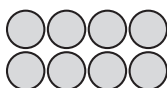
The number of shapes in each figure of the pattern is an odd number and increases by 2 as the pattern continues.

Think and Grow

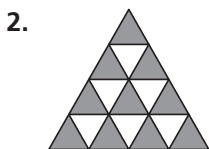
Example triangle



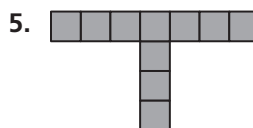
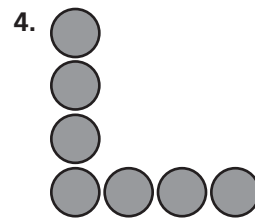
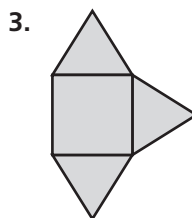
Example 2 circles



Show and Grow



Apply and Grow: Practice



7. *Sample answer:*

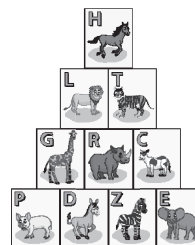


Add 3 circles to a figure to create the next figure in the pattern.

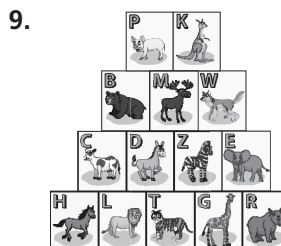
8. no; Some patterns grown by an increasing number of objects from one figure to the next.

Think and Grow: Modeling Real Life

Example

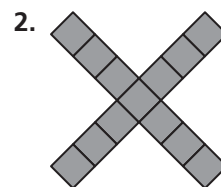
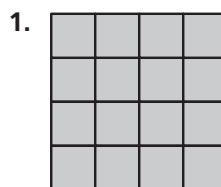


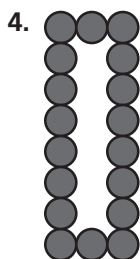
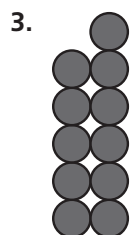
Show and Grow



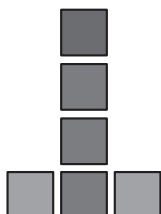
10. 6 cards

Homework & Practice

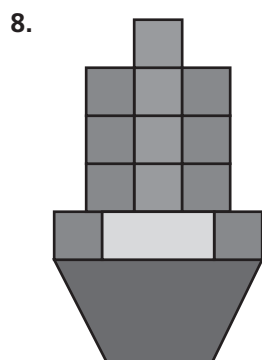




5. Add 1 blue square to below the red square in a figure to create the next figure in the pattern.



6. no; A column of 5 yellow circles is added to the left of the third figure to create the next figure in the pattern. So, there are 6 blue circles and 9 yellow circles in the next figure of the pattern.
7. 15 white triangles; There are 6 white triangles in Figure 3, a row of 4 white triangles is added to make Figure 4, and a row of 5 white triangles is added to make Figure 5; $6 + 4 + 5 = 15$.



Review and Refresh

9. 6

10. 8