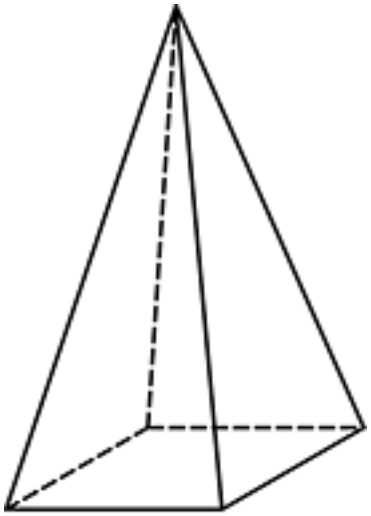
NAEP Released Items Aligned to the Iowa Core

2.G.1 Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.

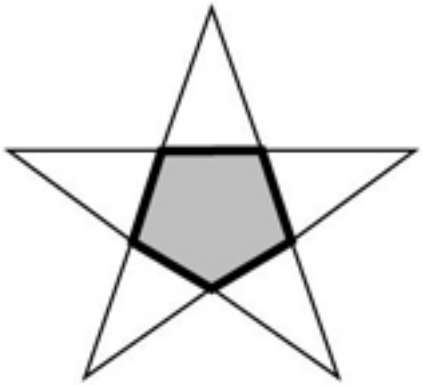


Square Pyramid

1. What shapes make up the faces of a square pyramid?
   A. Triangles only
   B. Pentagon and triangles
   C. Square and rectangles
   D. Square and triangles

2011-4-9-3

Source: National Assessment of Educational Progress, 2011, Grade 4 Mathematics Assessment.



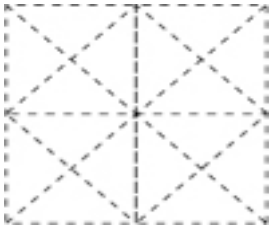
What is the shape of the shaded figure inside the star?

A. Hexagon
B. Pentagon
C. Quadrilateral
D. Triangle

2009-4-10-10

Source: National Assessment of Educational Progress, 2009, Grade 4 Mathematics Assessment.

In the figure below, outline a four-sided shape that is <u>not</u> a rectangle (or a square).



2007-4-9-15

Source: National Assessment of Educational Progress, 2007, Grade 4 Mathematics Assessment.

Which of the following has only 3 angles?

A. A triangle
B. A square
C. A rectangle
D. A cube

2003-4-10-2

Source: National Assessment of Educational Progress, 2003, Grade 4 Mathematics Assessment.

How many sides does a pentagon have?

A. Three
B. Four
C. Five
D. Six
E. Seven

2008-9-21-7

Source: National Assessment of Educational Progress, 2008, Age 9 Mathematics Assessment.

Amanda wants to paint each face of a cube a different color. How many colors will she need?

A. Three
B. Four
C. Six
D. Eight

2005-8-6-7

Source: National Assessment of Educational Progress, 2005, Grade 8 Mathematics Assessment.

2.G.2 Partition a rectangle into rows and columns of same-size squares and count to find the total number of them.

2.G.3 Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words *halves, thirds, half of, a third of, etc.*, and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.