

NAME

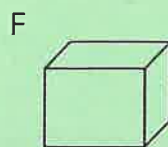
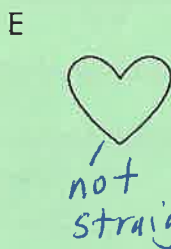
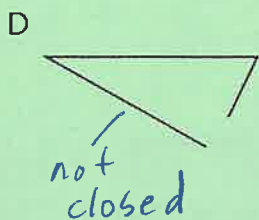
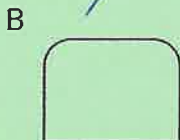
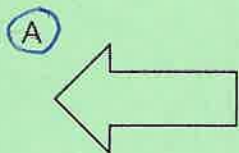
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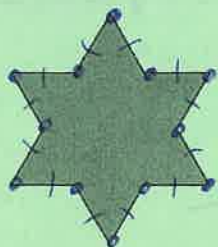
Unit 1, Lesson 11

Practice Problems

1. Select all the polygons.

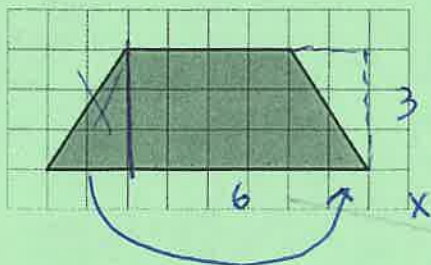


2. Mark each vertex with a large dot. How many edges and vertices does this polygon have?



12 vertices
12 sides

3. Find the area of this trapezoid. Explain or show your strategy.



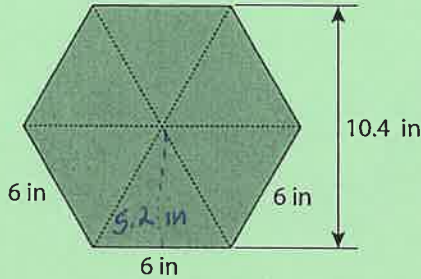
$6 \cdot 3 = 18 \text{ un}^2$
rearrange to
a rectangle

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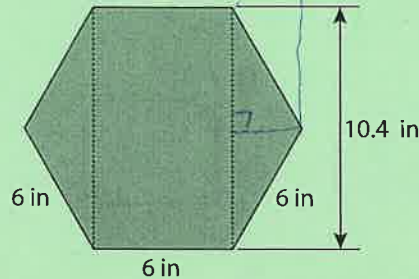
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4. Lin and Andre used different methods to find the area of a regular hexagon with 6-inch sides. Lin decomposed the hexagon into six identical triangles. Andre decomposed the hexagon into a rectangle and two triangles.



Lin's method



Andre's method

Do one well!

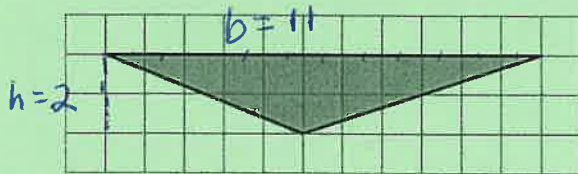
1

Find the area of the hexagon using each person's method. Show your reasoning.

1 triangle $6 \cdot 5.2 \div 2 = 15.6 \text{ un}^2$
 $b \cdot h \div 2$
 6 triangles $6 \cdot 15.6 \text{ un}^2 = 93.6 \text{ un}^2$

rectangle $6 \cdot 10.4 = 62.4 \text{ un}^2$
 $10.4 \cdot 3 \div 2 = 15.6 \text{ un}^2 \times 2$ triangles
 $b \cdot h \div 2$
 31.2 un^2
 62.4 un^2
 93.6 un^2 total

5. a. Identify a base and a corresponding height that can be used to find the area of this triangle. Label the base b and the corresponding height h .

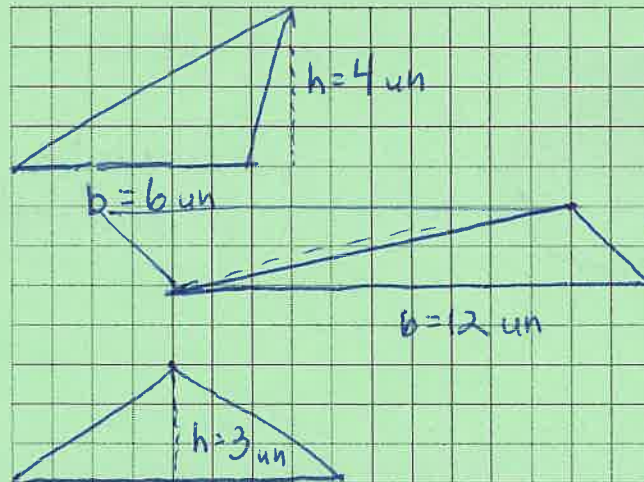


2. Find the area of the triangle. Show your reasoning.

$b \cdot h \div 2$
 $11 \cdot 2 \div 2 = 11 \text{ un}^2$

2

6. On the grid, draw three different triangles with an area of 12 square units. Label the base and height of each triangle.



rectangle or \square would need to be 12 un^2
 24 un^2

3