Name_____ Date_____ Period_____

LESSON 5-6 · SESSION 2 · PREREQUISITE PRACTICE B · SKILL 1 OF 2

Draw Nets of Solids

Builds on Lesson 5-6 Session 1 · 6.G.A.4

TODAY'S LESSON	You will read a net and name its solid, like 1 square + 4 triangles.
YOU NEED TO	List the shapes in a solid's net. **You will use it in Practice Form A, problems 1, 6, and 8.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Name** the base and count its sides.
2. **Write** the bases: a prism has 2, a pyramid has 1.
3. **Add** one side face per side: rectangles (prism) or triangles (pyramid).

WATCH ME

the steps in action

List the shapes in the net of a pentagonal prism.

Step 1 Base: pentagon, 5 sides.

Step 2 A prism has 2 bases: 2 pentagons.

Step 3 5 sides: 5 rectangles.

Answer **2 pentagons + 5 rectangles**

TRY IT WITH HELP

fill in each step

1. List the shapes in the net of a square pyramid.

Step 1 Base: square, _____ sides

Step 2 Bases: _____ square

Step 3 Side faces: _____ triangles

2. List the shapes in the net of a hexagonal prism.

Step 1 Base: hexagon, _____ sides

Step 2 Bases: _____ hexagons

Step 3 Side faces: _____ rectangles

YOUR TURN

use the steps on your own

3. List the shapes in each net.

a. triangular prism _____

b. hexagonal pyramid _____

c. octagonal prism _____

d. pentagonal pyramid _____

Faces, Edges, and Vertices

Builds on Grade 2 · 2.G.A.1

TODAY'S LESSON	You will count the faces, edges, and vertices of a solid from its net.
YOU NEED TO	Use n, the sides of the base, to count. **You will use it in Practice Form A, problems 2 and 5.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Faces**: count the bases plus one face per side.
2. **Edges**: prism 3 × n, pyramid 2 × n.
3. **Vertices**: prism 2 × n, pyramid n + 1.

WATCH ME

the steps in action

A hexagonal prism has a base with n = 6 sides. Count its faces, edges, and vertices.

Step 1 Faces: 2 + 6 = 8.

Step 2 Edges: 3 × 6 = 18.

Step 3 Vertices: 2 × 6 = 12.

Answer **8 faces, 18 edges, 12 vertices**

TRY IT WITH HELP

fill in each step

4. A cube has a base with n = 4 sides. Count its faces, edges, and vertices.

Step 1 Faces: 2 + 4 = _____

Step 2 Edges: 3 × 4 = _____

Step 3 Vertices: 2 × 4 = _____

5. A square pyramid has a base with n = 4 sides. Count its faces, edges, and vertices.

Step 1 Faces: 1 + 4 = _____

Step 2 Edges: 2 × 4 = _____

Step 3 Vertices: 4 + 1 = _____

YOUR TURN

use the steps on your own

6. Write the faces, edges, and vertices.

a. triangular prism _____

b. triangular pyramid _____

c. pentagonal prism _____

d. hexagonal pyramid _____

READY CHECK

a problem like the one in today's lesson

7. A net has 2 triangles and 3 rectangles. How many vertices does its solid have?

A 5 **B** 6 **C** 9 **D** 3

CHECK YOURSELF ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #____