Name_____ Date_____ Period_____

LESSON 5-6 · SESSION 2 · PRACTICE · FORM B

Reading Nets and Solids

Learning target – I can name the solid a net makes by reading the shapes in the net. · 6.G.A.4

REMEMBER

- **Prism**: 2 matching bases + rectangles. **Pyramid**: 1 base + triangles that meet at a point.
- The **base shape** names the solid: triangular, square, pentagonal, hexagonal.
- A **face** is flat, an **edge** is where faces meet, a **vertex** is a corner. Count them on the folded solid.

WORKED EXAMPLE

A net has 1 square and 4 triangles.

Step 1 1 + 4 = 5 faces.

Step 2 One square base + triangles: square pyramid.

Step 3 Edges 4 + 4 = 8; vertices 4 + 1 = 5.

Answer **square pyramid: 5 faces, 8 edges, 5 vertices**

WORDS **edge** *(arista)* · **vertex** *(vértice)* · **base** *(base)*

PRACTICE

show your work · label units

1. Name the solid each net makes.

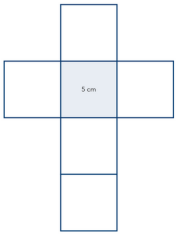
a. 2 hexagons + 6 rectangles: _____

b. 1 pentagon + 5 triangles: _____

c. 2 triangles + 3 rectangles: _____

d. 1 rectangle + 4 triangles: _____

2. **Mystery Net.** A net shows 6 identical squares, each 5 cm on a side.



a. Name the solid. _____

b. Faces, edges, vertices _____

c. Area of one face _____ cm²

d. Area of all the faces _____ cm²

3. **Fold the Net.** A net has 2 rectangles 10 in by 6 in, 2 rectangles 10 in by 4 in, and 2 rectangles 6 in by 4 in.

Hint *Add all six faces.*

a. Name the solid. _____

b. Total area _____ in²

Show your work.

4. **Game Box.** A net has 2 squares 10 in by 10 in and 4 rectangles 10 in by 2 in.

a. Name the solid. _____

b. Total area _____ in²

Show your work.

5. Cube Count. A storage cube has 9 cm edges.

Hint *Edges are the lines. Vertices are the corners.*

a. Faces, edges, vertices _____

b. Area of one face _____ cm²

Show your work.

6. Ana's Claim. Ana sees a net of 1 pentagon and 5 triangles. Ana says it folds into a pentagonal prism. Is Ana right?

Hint *Count the bases. One base means a pyramid.*

Show your work.

Solid_____

7. Ornament Net. A net has 1 triangle base with 3 triangles around it. Each outer triangle has a base of 10 cm and a height of 6 cm.

Hint *Use the triangle formula on one outer face.*

Show your work.

Solid; area of one outer triangle_____

8. Three Nets. Net 1: 2 hexagons + 6 rectangles. Net 2: 4 triangles. Net 3: 6 identical squares.

a. Name the solid each net makes. _____

b. Explain how you tell a prism from a pyramid. _____

Show your work.

FIND THE ERROR

explain the mistake, then fix it

9. Theo's Work. Theo says a square pyramid has 4 faces, 4 edges, and 4 vertices, because its base has 4 sides. Explain the mistake and give the correct counts.

_____

_____

_____

TEST PRACTICE

choose the best answer

10. How many bases does a pyramid have?

A 0 **B** 1 **C** 2 **D** 3

11. A net with 6 identical squares makes a –

A square pyramid

B rectangular prism that is not a cube

C cube

D hexagonal prism

SELF-CHECK CODE *find your answer · copy its letter into that problem's box · spell a math word*

150 H	124 Z	60 Q	81 E	280 P	30 S	25 S	248 A

#2c	#2d	#3b	#4b	#5b	#7

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