Name_____ Date_____ Period_____

LESSON 5-6 · SESSION 1 · PRACTICE · FORM A

Drawing Nets of Solids

Learning target – I can draw the net of a solid by unfolding its faces onto a flat surface. · 6.G.A.4

REMEMBER

- A **net** is a flat pattern that folds into a solid. Each face appears **once**, with no overlaps.
- **Rectangular prism**: 6 rectangles in 3 matching pairs. **Square pyramid**: 1 square + 4 triangles. **Triangular prism**: 2 triangles + 3 rectangles.
- Edges that fold together must be the **same length**.

WORKED EXAMPLE

Net for a box 5 cm × 3 cm × 2 cm.

Step 1 Bottom and top: 5 cm by 3 cm.

Step 2 Front and back: 5 cm by 2 cm.

Step 3 Two sides: 3 cm by 2 cm.

Answer **6 rectangles, 3 matching pairs**

WORDS **net** *(plantilla)* · **face** *(cara)* · **pyramid** *(pirámide)*

PRACTICE

show your work · label units

1. How many of each shape are in the net?

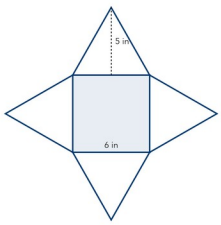
a. rectangular prism: rectangles ___

b. square pyramid: all shapes ___

c. triangular prism: triangles ___

d. hexagonal pyramid: triangles ___

2. **Paper Pyramid.** Yuri is folding a paper square pyramid. Its net is shown.

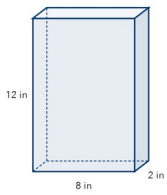


a. How many flat pieces are in the net? _____

b. Area of the square base _____ in²

c. Area of one triangle _____ in²

3. **Cereal Box.** A cereal box is a rectangular prism 8 in by 2 in by 12 in.



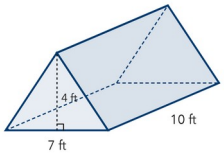
Hint *The largest face uses the two longest edges.*

a. How many rectangles are in the net? _____

b. Area of the largest face _____ in²

Show your work.

4. Tent Net. A tent is a triangular prism. Each triangle end has a base of 7 ft and a height of 4 ft. The tent is 10 ft long.



Hint *A triangular prism has 2 triangle ends.*

a. How many triangles are in the net? _____

b. Area of one triangle end _____ ft²

Show your work.

5. Gift Cube. A gift box is a cube with 9 cm edges. How many faces? Area of one face?

Show your work.

Faces, area_____

6. Display Pyramid. A square pyramid has a 14 in base edge. Each triangle is 11 in tall. Find one triangle's area.

Show your work.

Answer_____ in²

7. Maya's Net. Maya drew a net of 5 squares, all the same size. Maya says it folds into a cube. Is Maya right? Explain.

Hint *Count the faces of a cube.*

8. Wrapping Plan. A gift box is 10 in long, 5 in wide, and 4 in tall.

a. List the three pairs of matching rectangles in its net. _____

b. Area of the largest face _____ in²

Show your work.

FIND THE ERROR

explain the mistake, then fix it

9. Caleb's Net. Caleb drew a net for a square pyramid: one square with 3 triangles attached to its sides. Caleb says it will fold up correctly. Explain the mistake.

TEST PRACTICE

choose the best answer

10. A net is a flat pattern that folds into a –

A solid **B** line **C** circle **D** number line

11. A square pyramid's net contains –

A 4 squares and 1 triangle **B** 1 square and 4 triangles

C 2 squares and 4 rectangles **D** 6 squares

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

77 D	14 O	50 S	96 F	154 X	36 U	28 Z	81 L	15 N	30 Q

#2b	#2c	#3b	#4b	#5	#6	#8b

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