NAME

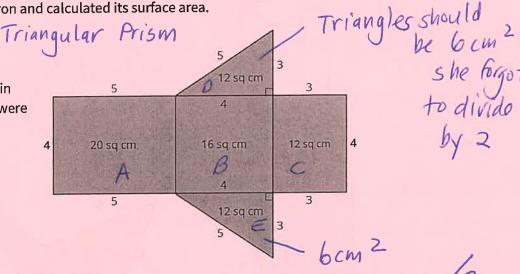
PERIOD

Unit 1, Lesson 15

Practice Problems

1. Jada drew a net for a polyhedron and calculated its surface area.

- a. What polyhedron can be assembled from this net?
- b. Jada made some mistakes in her area calculation. What were the mistakes?

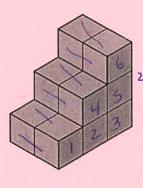


c. Find the surface area of the polyhedron. Show your reasoning.

2. A cereal box is 8 inches by 2 inches by 12 inches. What is its surface area? Show your reasoning. If you get stuck, consider drawing a sketch of the box or its net and labeling the edges with their measurements.



- 2(8:12)-Front + Back 192 / 2(8:2)-Top+ Bottom 32 2 (2.12)-sides 48 2
- 3. Twelve cubes are stacked to make this figure.

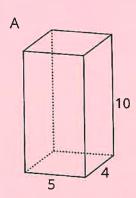


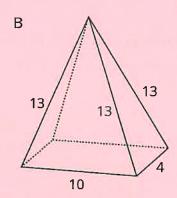
- 36 un 2 a. What is its surface area?
- b. How would the surface area change if the top two cubes are removed?

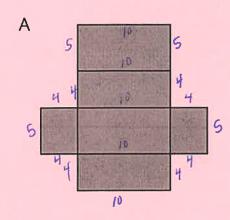
251/18 6+6
$$\rightarrow$$
 105e 2
5teps 12 \rightarrow 105e 2
back 6 \rightarrow 105e 2
bo Hom 6 105e 0

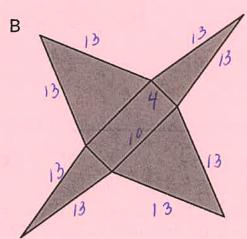
NAME DATE PERIOD

4. Here are two polyhedra and their nets. Label all edges in the net with the correct lengths.



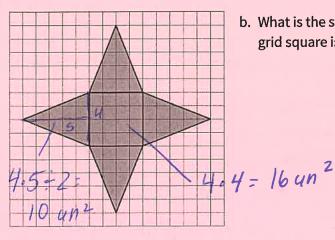






/2

5. a. What three-dimensional figure can be assembled from the net? 5quire pyramid



b. What is the surface area of the figure? (One grid square is 1 square unit.)

4(10)+16 40+16=564n2

2