

NAME

DATE

PERIOD

Unit 1, Lesson 16

Practice Problems

- 1. Match each quantity with an appropriate unit of measurement.
 - A. The surface area of a tissue box 5
 - B. The amount of soil in a planter box 3 of 4
 - C. The area of a parking lot
 - D. The length of a soccer field 2
 - E. The volume of a fish tank 3 of 4

- 1. Square meters
- 2. Yards
- Cubic inches
- 4. Cubic feet
- Square centimeters



2. Here is a figure built from snap cubes.



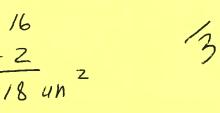
- a. Find the volume of the figure in cubic units.
- b. Find the surface area of the figure in square units.

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Sides
$$H(4) = 16$$

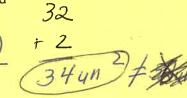
Top4 $2(1) + 2$

18 47



4 un 3 (4 blocks)

c. True or false: If we double the number of cubes being stacked, both the volume and



3. Lin said, "Two figures with the same volume also have the same surface area."

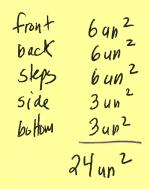
double
$$SA = 36un^2$$

for 4 cubes
 $34un^2 \neq 36un^2$

B+C both 24un2 a. Which two figures suggest that her statement is true?

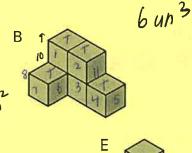
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b. Which two figures could show that her A + C or statement is not true?

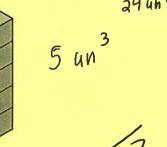


DATE 6 41 2 6un³ 6un 2 Α 1/un2 3 4 n 2

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hallenge

4. Draw a pentagon (five-sided polygon) that has an area of 32 square units. Label all relevant sides or segments with their measurements, and show that the area is 32 square units.



doesn't have to be a "regular" polygon

5. a. Draw a net for this rectangular prism.

b. Find the surface area of the rectangular prism.

