

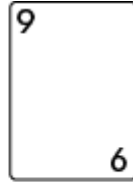
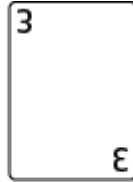
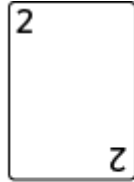
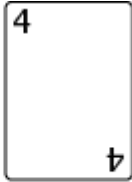
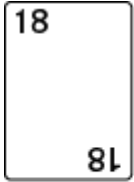
EM4 Grade 5 Unit 1: Unit Assessment
(Version 2- English)

Student Name: _____

Student ID: _____

Date: _____

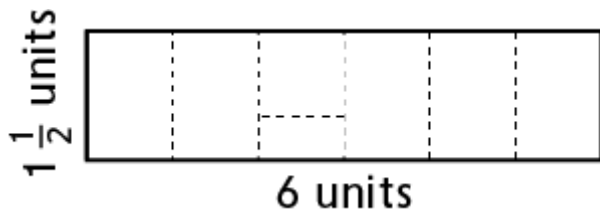
- 1 Jacari was playing *Name That Number*. He had the cards shown below. Write two different expressions that show how Jacari could play his cards. Use grouping symbols in at least one of the expressions.



**Target
Number**

A large empty rectangular box for writing the answer.

- 2 Find the area of the rectangle. Write a number sentence to show your thinking.



- 3 Solve.

a. $9 * (3 + 6) = \underline{\quad}$

b. $(9 * 3) + 6 = \underline{\quad}$

c. $\underline{\quad} = (42 \div 2) + 4$

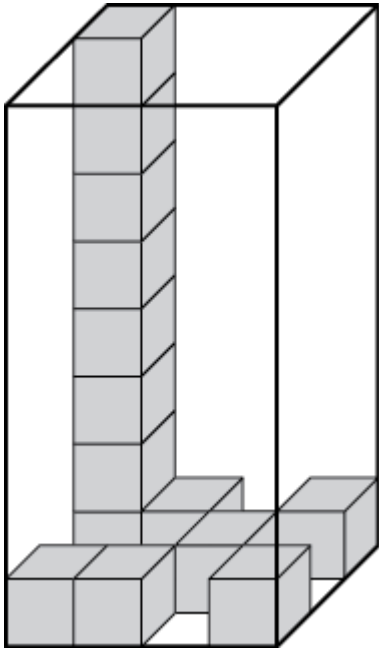
d. $\underline{\quad} = 42 \div (2 + 4)$

- 4 Select the items that have volume.

- A) a pencil tip
- B) a soccer ball
- C) a jar
- D) a drawing of a square
- E) a tube of toothpaste
- F) the top of a shelf

- 5 a. Julian filled a box and said its volume was 42 balls. Laura filled the same box and said its volume was 38 cubes. Explain how Julian and Laura could get different volumes for the same box.
- b. Are balls or cubes better for measuring the volume of a rectangular prism? Why?

6



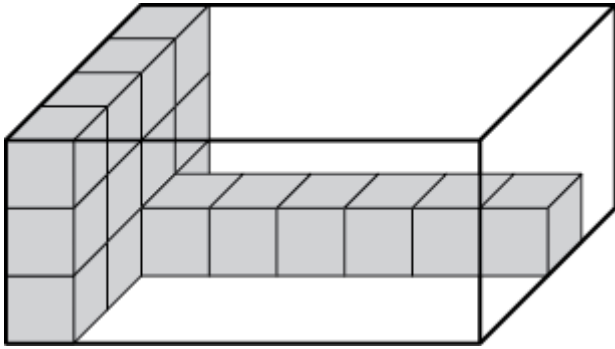
How many cubes would it take to fill this prism?

___ cubes

What is the volume of this prism?

___ cubic units

7



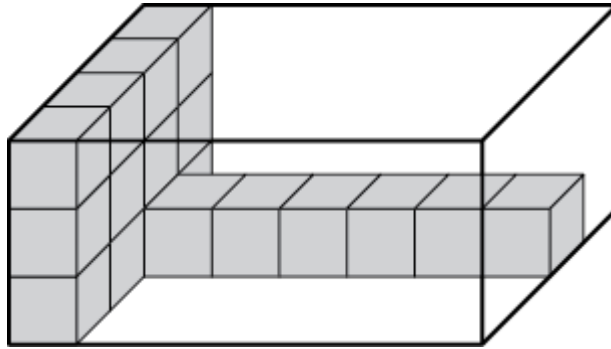
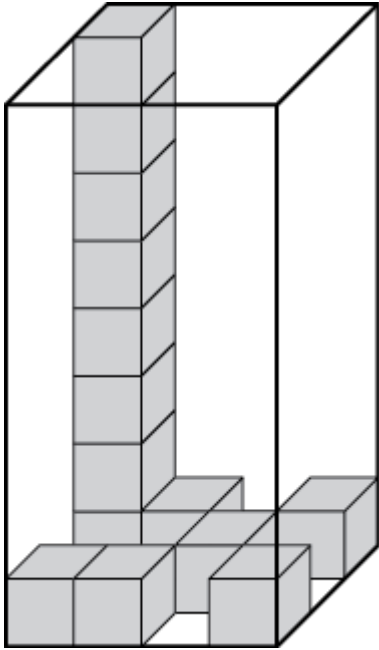
How many cubes would it take to fill this prism?

___ cubes

What is the volume of this prism?

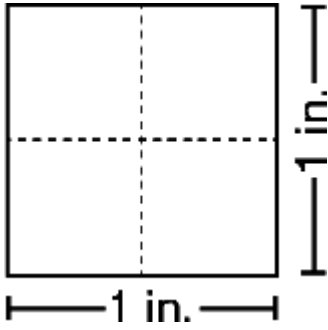
___ cubic units

- 8 Compare the strategies you used to find the volume in the two previous problems. How were they the same? How were they different?

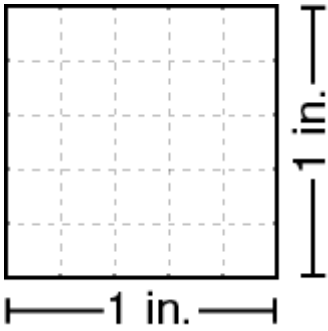


A large empty rectangular box for writing the answer to the question.

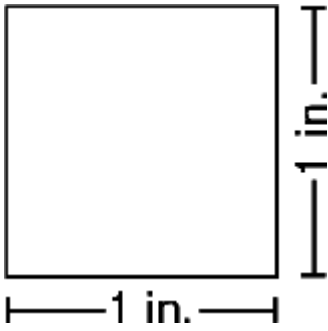
9 4 squares with side length $\frac{1}{2}$ inch fit in 1 square inch.



25 squares with side length $\frac{1}{5}$ inch fit in 1 square inch.

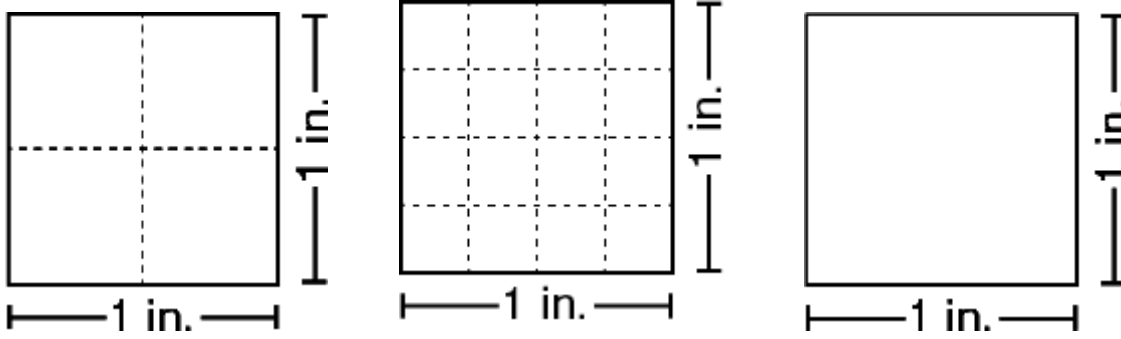


How many squares with side length $\frac{1}{6}$ inch will fit into 1 square inch? You may want to draw a picture to help you.



__ squares

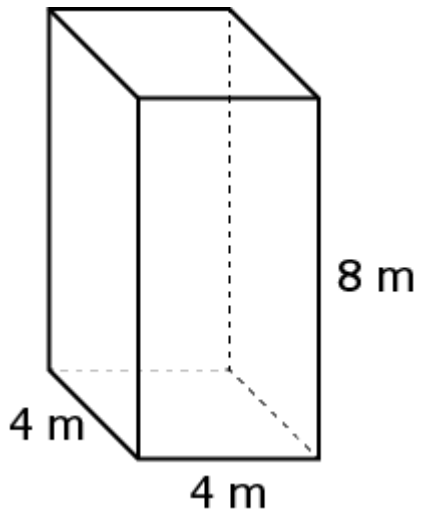
- 10 a. What pattern do you notice about the relationship between the side length of the smaller squares and the number of squares that will fit in 1 square inch?



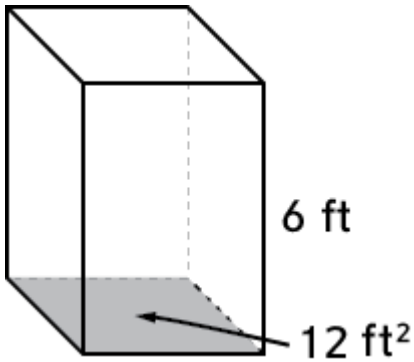
- b. Use the pattern to explain how many squares with side length $\frac{1}{6}$ inch would fit into 1 square inch.

Blank area for the student's response.

- 11 Find the volume of the rectangular prism. Remember to include a unit.
Write a number sentence to show how you found the volume.
Use the following formulas to help you: $V = l \times w \times h$ and $V = B \times h$.



- 12 Find the volume of the rectangular prism. Remember to include a unit. Write a number sentence to show how you found the volume. Use the following formulas to help you: $V = l \times w \times h$ and $V = B \times h$.

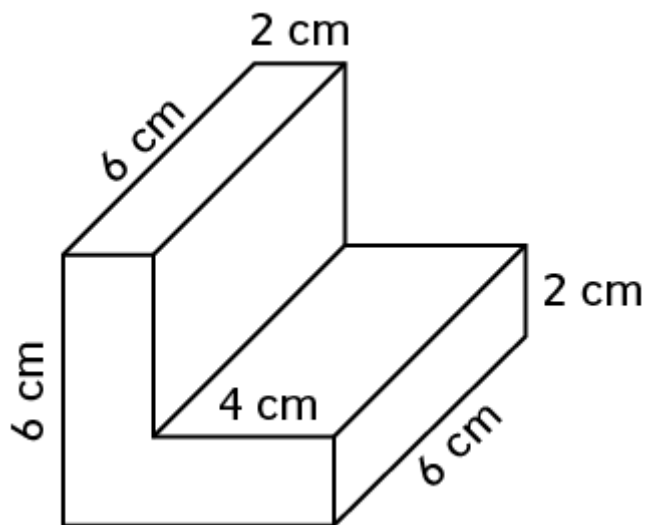


- 13 Zoe was raising money to donate. She earned \$27 from her lemonade stand and \$13 for watching her neighbor's pets. She donated half the money to the food bank. Write an expression that models the amount of money Zoe donated.

Expression: ___

14 Use paper and pencil to solve the problem.

a. Find the volume of this figure.



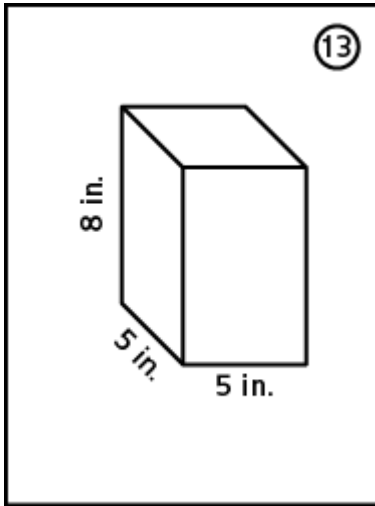
b. Explain how you found the volume.

15 Use paper and pencil to solve the problem.

Write the volume of each figure and the number sentence you used to find it. Then identify the card that would win the round of Prism Pile-Up.

Remember $V = l \times w \times h$.

a.

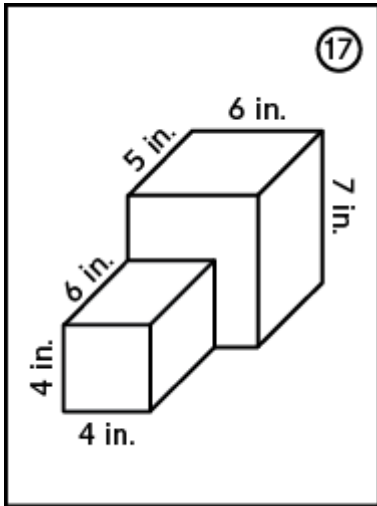


$V =$

cubic centimeters

Number Sentence:

b.



V =

cubic centimeters

Number Sentence: