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Volume of Rectangular Prisms

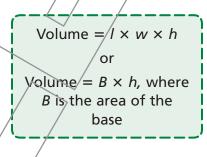


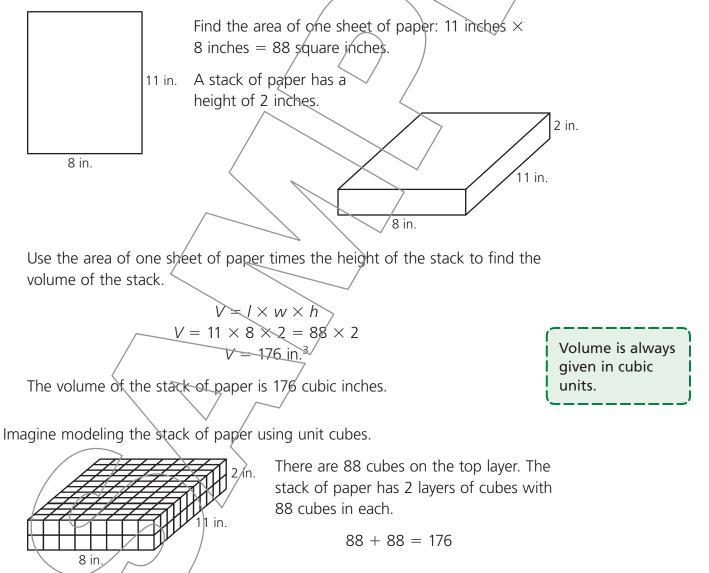
LESSON

Introduction

The area of a rectangle or square is found by multiplying the length and width. Area is the measurement of a flat or two-dimensional figure in square units. Find the volume of a rectangular prism or cube by using the three dimensions of the figure: length, width, and height.

What is the volume of a stack of paper that is 2 inches high and made of sheets measuring 11 inches long by 8 inches wide?





There are 176 cubes in the rectangular prism formed by the stack of papers.

The volume of the stack of cubes is 176 cubic inches, which is the same as the volume found by multiplying the dimensions of the stack of papers: $11 \times 8 \times 2 =$ 176 cubic inches.

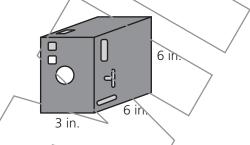


Why is using the formula $V = B \times h$ the same as using the formula $V = I \times w \times h$?



Use the information given in diagrams and pictures to find the volume of figures.

> Minny collects old cameras. She has an old box camera like the one shown below.



What is the formula for the volume of a rectangular prism?

What is the length of the camera?

What is the width of the camera? _

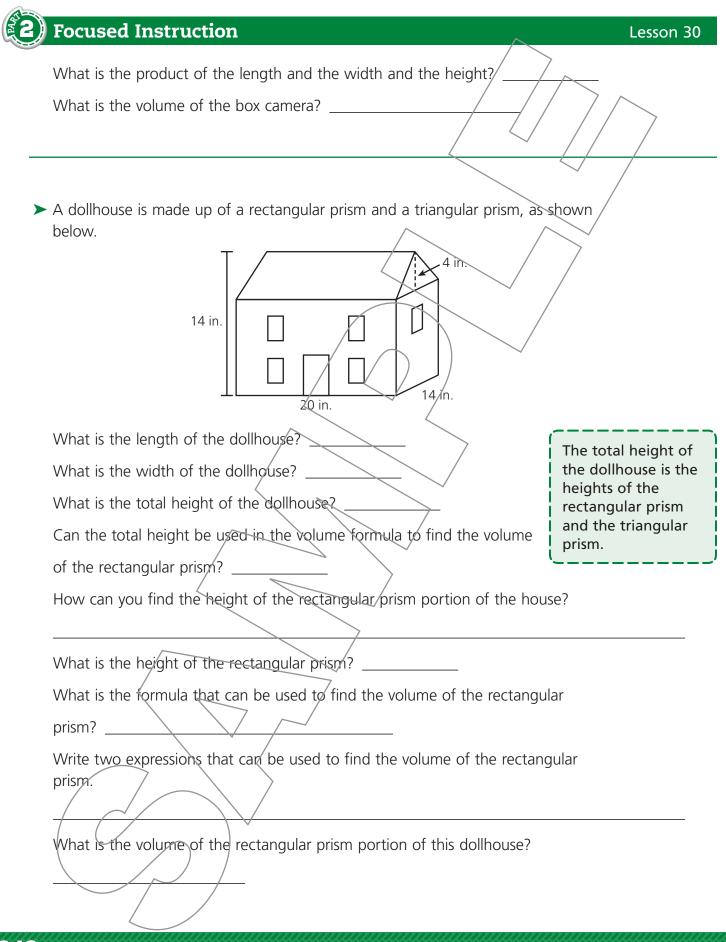
What is the height of the camera?

Write an expression that can be used to find the volume of the box camera.

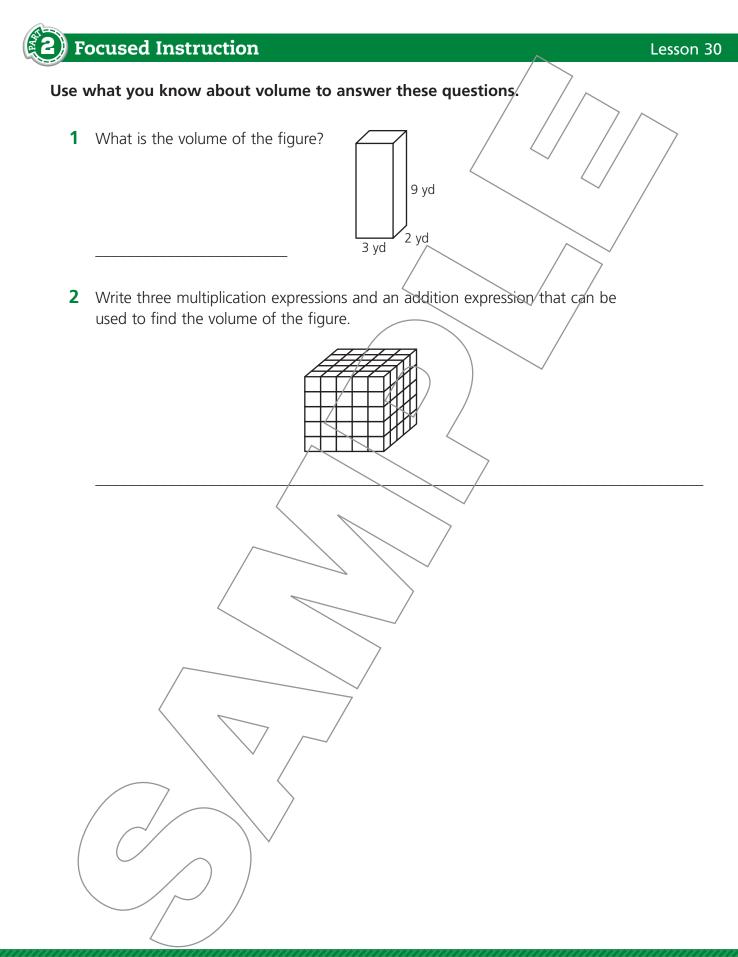
What is the product of the length and width?

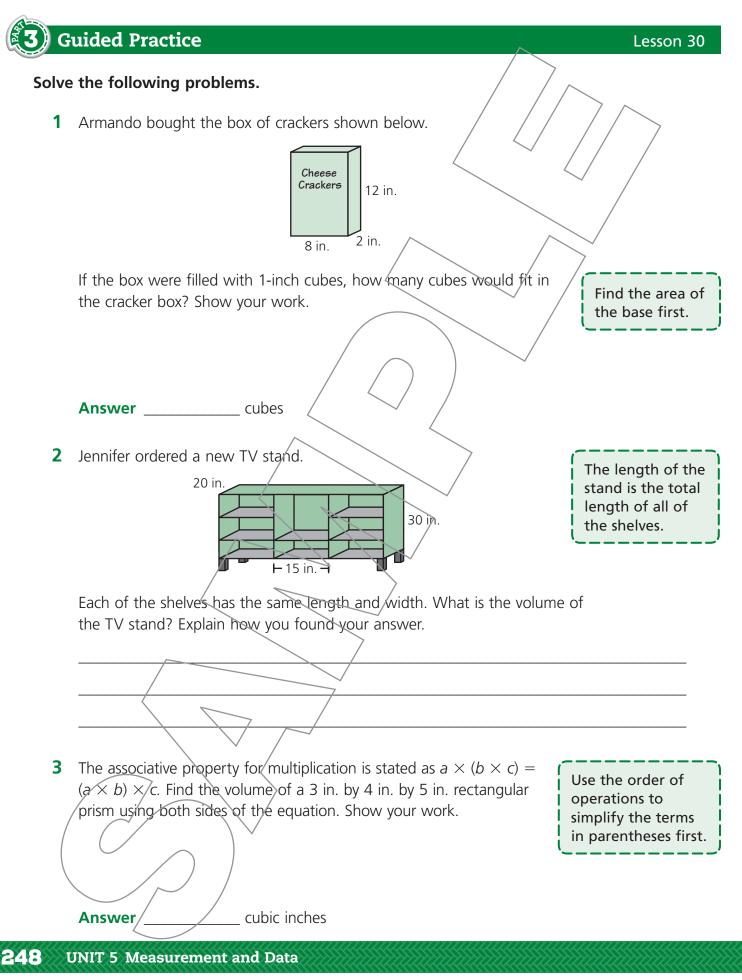
What part of the camera does this product represent?

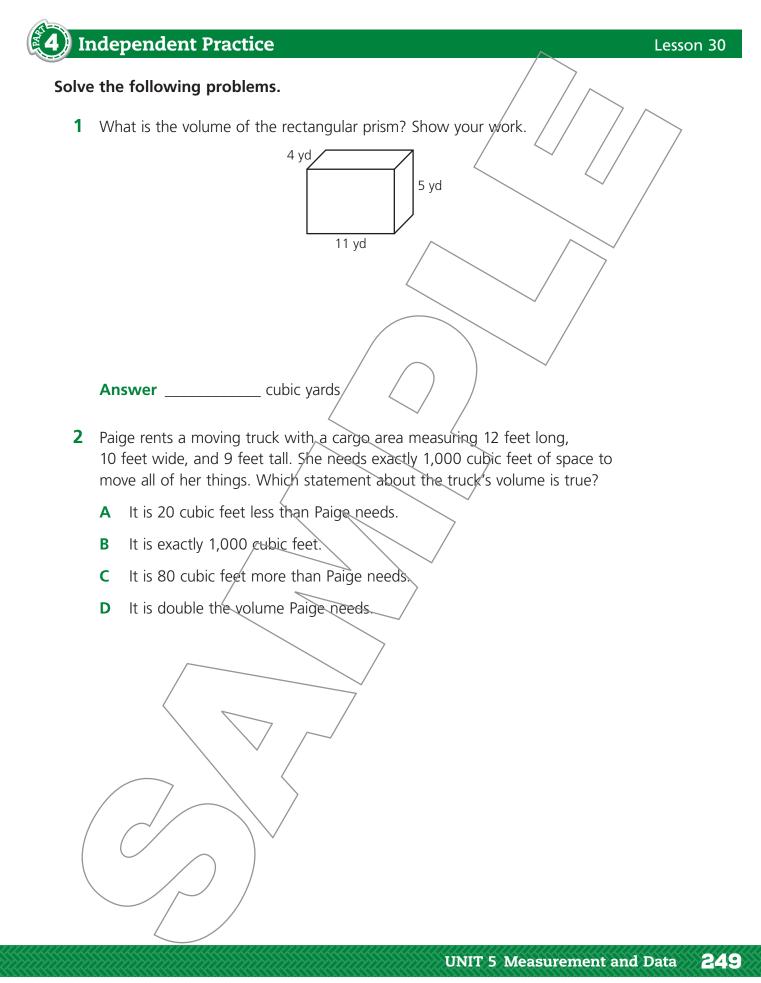
The base of the camera is a rectangle.



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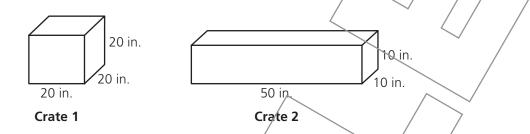






Independent Practice

3 Tariq ships baseballs to sports equipment stores. Each baseball is in a box with a volume of 100 cubic inches. He ships the baseballs in one of the two crates below.

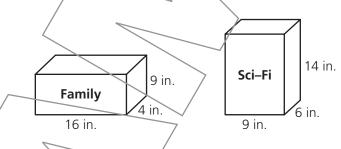


Part A In which crate can Tariq ship more baseballs?

Answer _

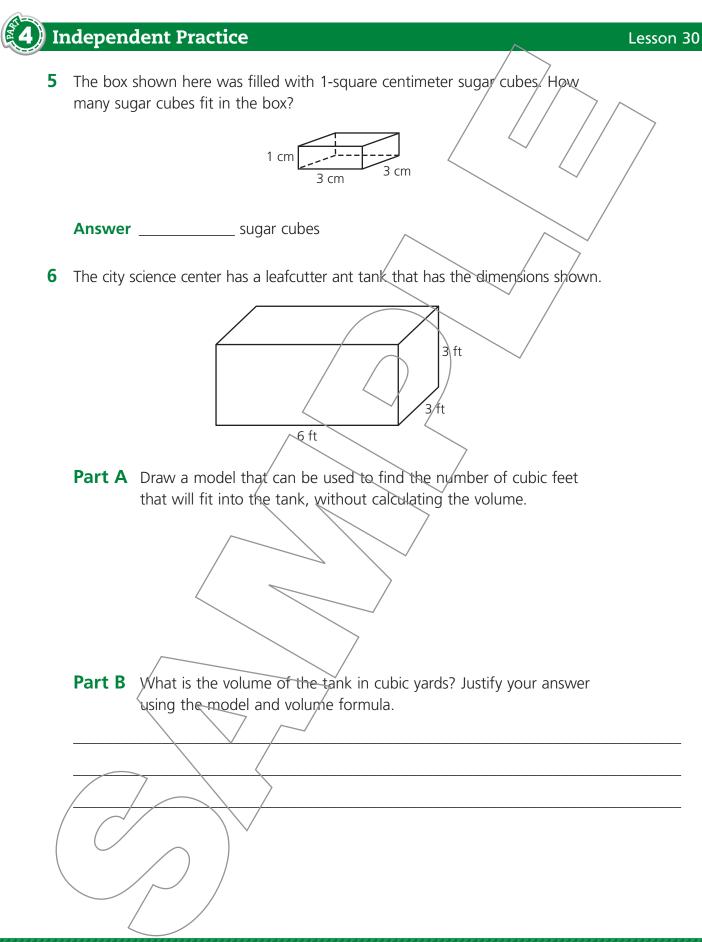
Part B The baseballs cost \$0.50 each to ship. How much does it cost to ship the crate that fits the greatest number of baseballs? Explain.

4 Boxed sets of DVDs of two different TV shows are shown.



Choose an option from each set that makes the statement true.

The volume of the [family show, sci-fi show] DVD set is [180, 576, 756] cubic inches greater than the volume of the other DVD set.



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