

- 1) A rectangular parking lot has an area of  $\frac{2}{3}$  of a square kilometer. The width is  $\frac{1}{2}$  of a kilometer. What is the length, in kilometers, of the parking lot?
- 2) A rectangular room has an area of  $131\frac{1}{4}$  square feet. The length of the room is  $12\frac{1}{2}$  feet. What is the width, in feet, of the room?

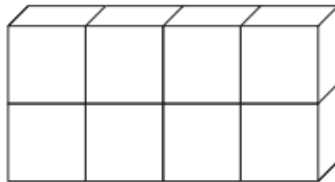
A trapezoid in a coordinate plane has vertices  $(-2, 5)$ ,  $(-3, -2)$ ,  $(2, -2)$ , and  $(1, 5)$ .  
What is the height of the trapezoid?

What is the area of the quadrilateral with vertices at  $(-1, 0)$ ,  $(2, 0)$ ,  $(2, 5)$ , and  $(-1, 5)$ ?

In the coordinate plane, what is the distance between  $(-3, 5)$  and  $(-3, -8)$ ?

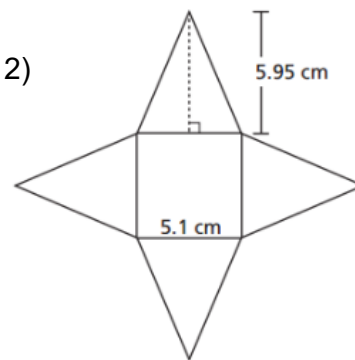
The right rectangular prism below is made up of 8 cubes. Each cube has an edge length of  $\frac{1}{2}$  inch.

1)

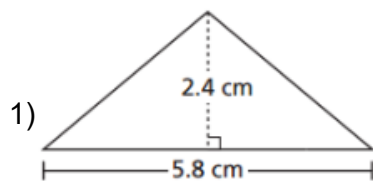


A net of a square pyramid is shown below.

2)

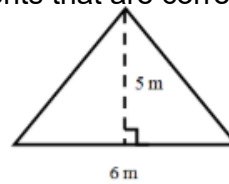
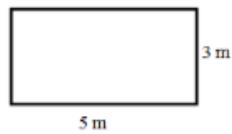


What is the surface area, in square centimeters, of the pyramid?



What is the area of the figure above?

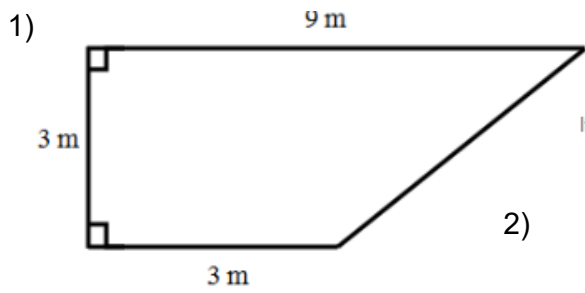
2) Choose all statements that are correct...



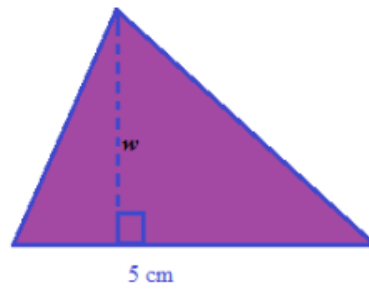
Figures are not drawn to scale.

- A** The area of both figures are equal.
- B** The area of the rectangle is  $15 \text{ m}^2$ .
- C** The area of the triangle is  $30 \text{ m}^2$ .
- D** The area of the triangle is greater than the area of the rectangle.

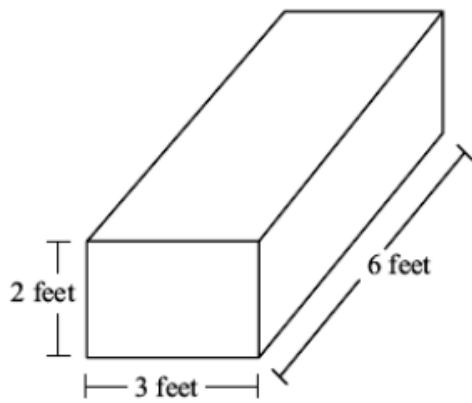
What is the area of the figure below?



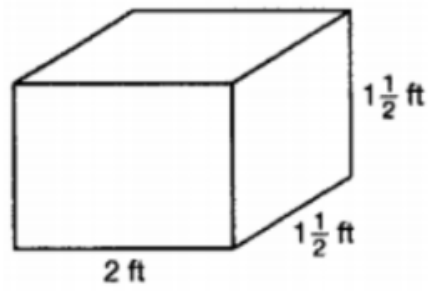
If the area of the triangle is  $10 \text{ cm}^2$ , what is the missing height?



1) Find the volume and surface area of each

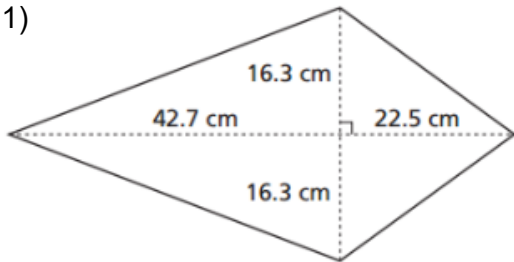


2)



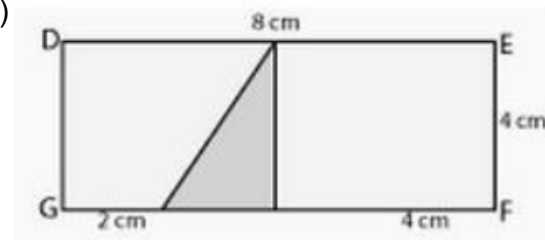
Noah wants to make the kite shown below out of cloth.

1)



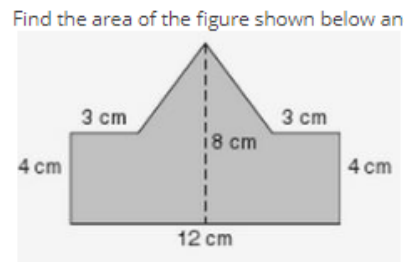
He wants to determine how much cloth he needs. What is the area, rounded to the nearest square centimeter, of Noah's kite?

2)



Find the area of the shaded portion shown below and type your result in the empty box provided below.

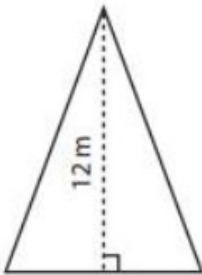
3)



Find the area of the figure shown below and type your result in the empty box provided below.

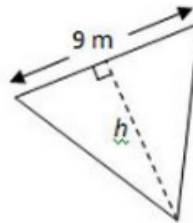
Find the base of the triangle given below if the area is  $48\text{m}^2$ .

1)

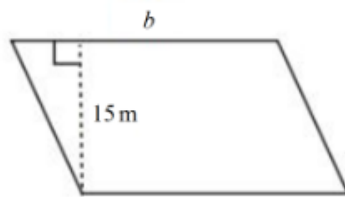


Find the height of the triangle if the area is  $36\text{m}^2$ .

2)



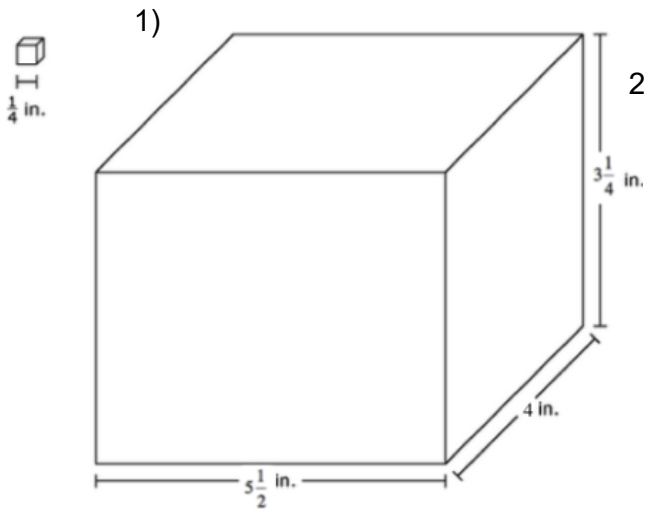
3) Find the base of the parallelogram given below, if area of the parallelogram is  $315\text{m}^2$  and choose the appropriate result.





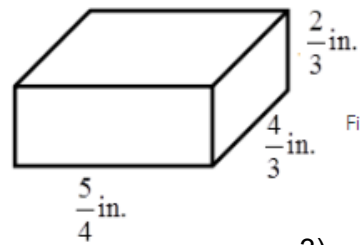
Small cubes of edge length  $\frac{1}{4}$  inch will be packed into the rectangular prism below.

A box below needs to be painted.



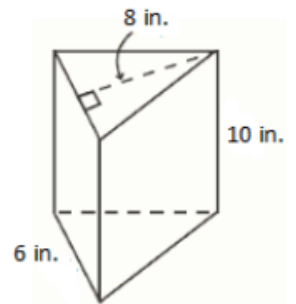
How many small cubes are needed to completely fit in this rectangular prism?

How many square inches of paint will be needed to cover the entire surface of the box?

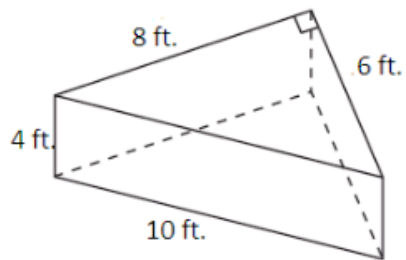


Find the volume of the prism.

3)



A wedge of cheese in the shape of a triangular prism is shown below.  
Find the surface area of the cheese.



base = 4, height = 10

base = 6, height = 8

base = 6, height = 10

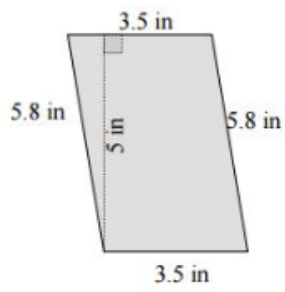
base = 8, height = 10

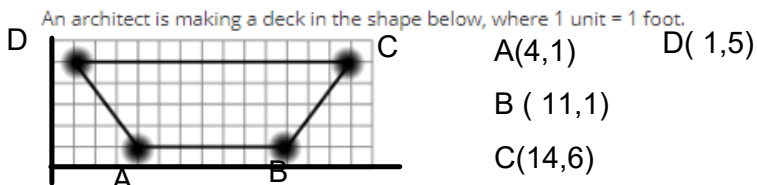
base = 4, height = 8



find the areas of  
the triangles given

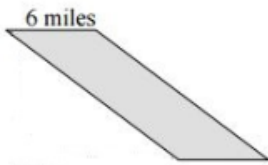
Find the area of the parallelogram shown below and type your result in the empty box shown below.



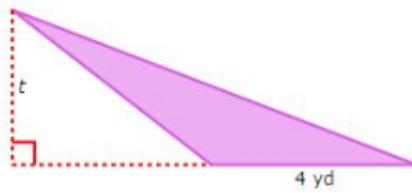


If one quart of deck stain can cover 8 square feet, how many quarts need purchased to stain the deck once?

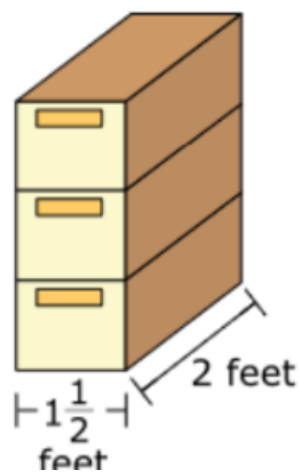
Find the height of the parallelogram shown below if its area is  $84 \text{ sq. mi}$ .



If the area of the shaded region is  $6 \text{ yd}^2$ , find the value of  $t$ .



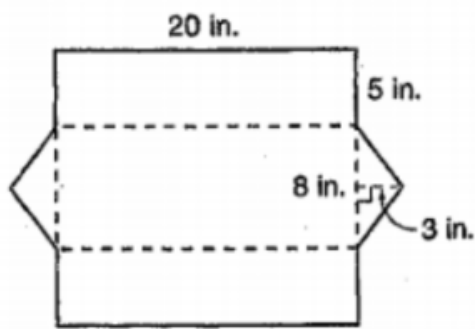
Denzel has two stacks of identical storage boxes in his room. One stack has 3 boxes and the other stack has 5 boxes. The volume of the stack of 3 storage boxes is  $11\frac{1}{4}$  cubic feet. The drawing shows the stack of 3 storage boxes.



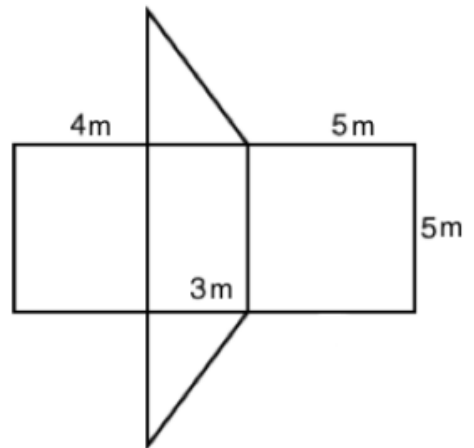
What is the height, in feet, of 1 storage box?

What is the volume, in cubic feet, of the stack of 5 storage boxes?

The net of a triangular prism is shown. What is the surface area of the triangular prism?



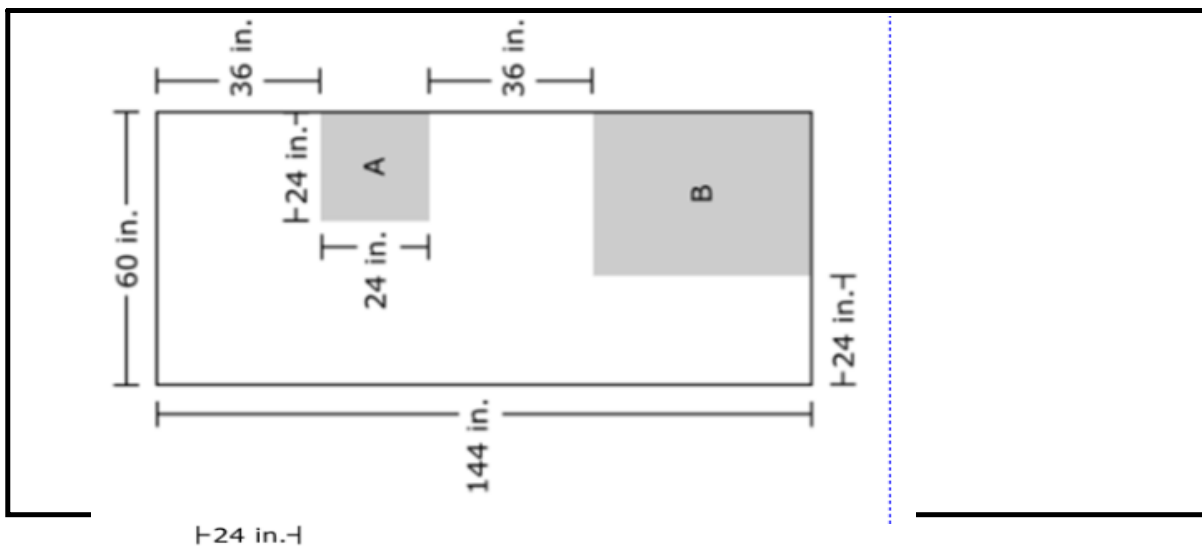
A triangular prism has a net as shown below.



What is the surface area of this triangular prism?

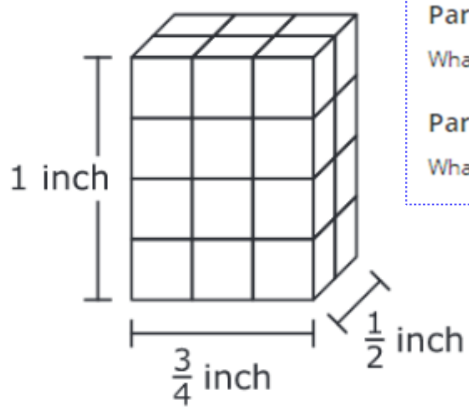


A metal shop is cutting a rectangular piece of sheet metal with a width of 60 inches and a length of 144 inches. The shaded parts of the diagram represent two rectangular sections, A and B, that will be cut and removed.



Use the information provided to answer Part A and Part B.

The right rectangular prism is built with small cubes.



**Part A**

What is the volume, in cubic inch (es), of the right rectangular prism?

**Part B**

What is the volume, in cubic inch (es), of 1 of the small cubes?

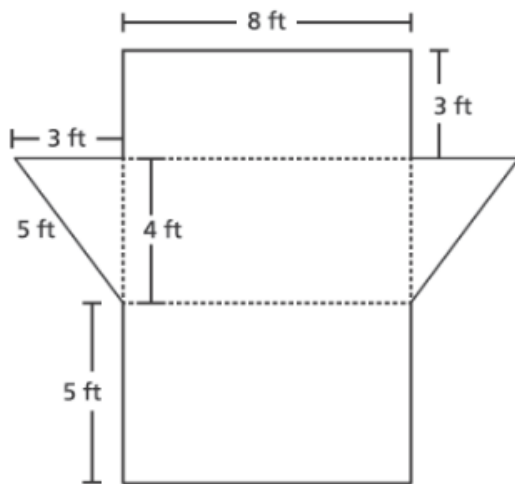
**Part A**

What is the volume, in cubic inch (es), of the right rectangular prism?

**Part B**

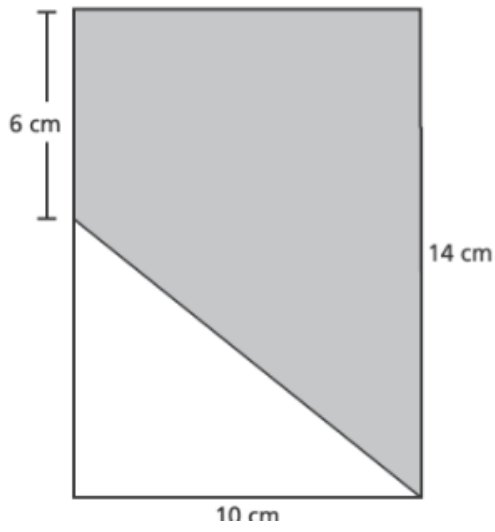
What is the volume, in cubic inch (es), of 1 of the small cubes?

A net of a triangular prism is shown below.

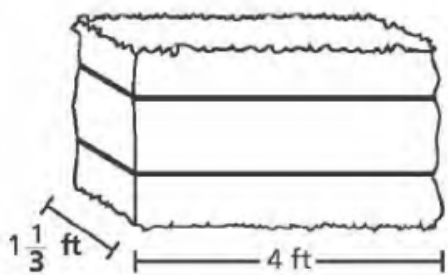


What is the surface area, in square feet, of the triangular prism?

What is the area, in square centimeters, of the shaded part of the rectangle shown below?



A farmer stacked hay bales. The length and width of each hay bale are shown below.

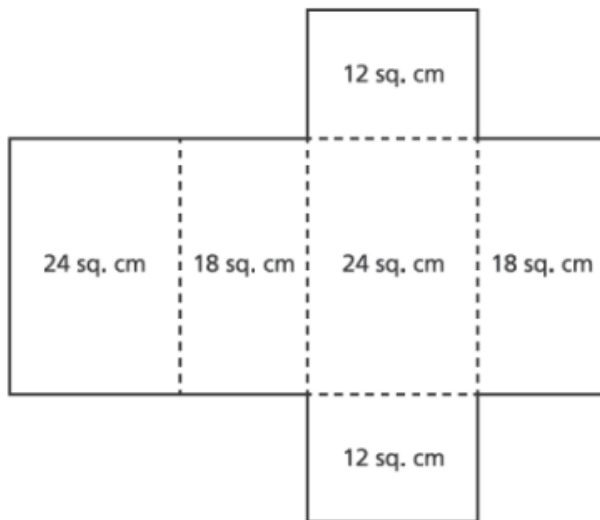


The volume of each hay bale is  $10\frac{2}{3}$  cubic feet. The farmer stacked eight hay bales on top of one another. What is the height, in feet, of the stacked hay bales?

A right rectangular prism has a length of  $2\frac{1}{2}$  feet, a width of **3** feet, and a height of  $1\frac{1}{2}$  feet. Unit cubes with side lengths of  $\frac{1}{2}$  foot are added to completely fill the prism with no space remaining. What is the volume, in cubic feet, of the right rectangular prism?

How many  $\frac{1}{2}$ -foot unit cubes can be added to fill the prism completely? Use what you know about unit cubes or the side lengths of prisms to show your work or explain your answer.

The net of a rectangular prism is shown below. The surface area of each face is labeled.



What are the dimensions?

What is the volume?

Which values represent the dimensions, in centimeters, of the rectangular prism?