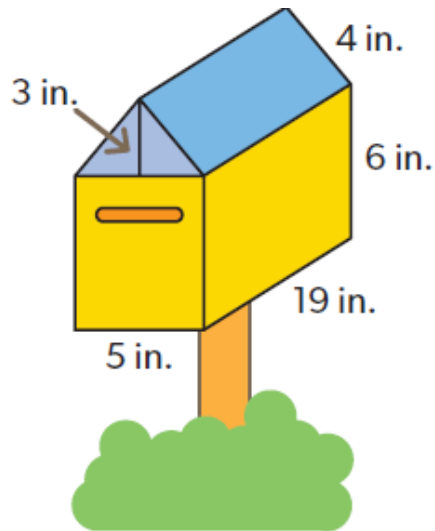


Surface Area and Volume of Composite Solids Tier A

1.



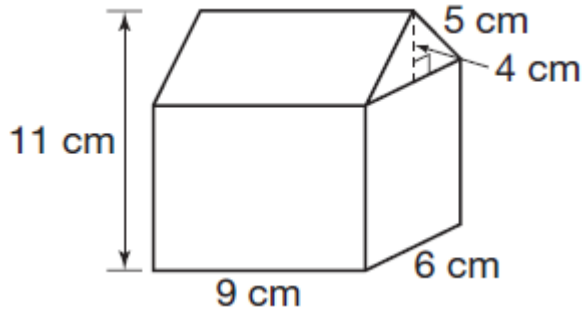
Oliver built a mailbox and wants to know exactly how much it can hold. What is the total volume of the mailbox?

What is the volume of the triangular prism? (area of base x height)

What is the volume of the rectangular prism? (length x width x height)

What is their sum?

2.



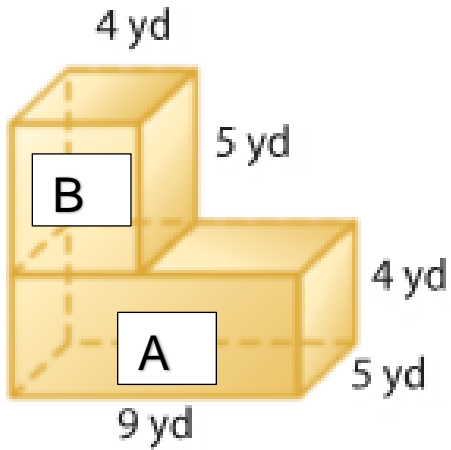
How many square centimeters of paint would be needed to paint the roof of this house?

(remember you are finding the area of 4 faces. There are 2 triangles and 2 rectangles)

FACE	Formula and Work
Triangle	
Triangle	
Rectangle	
Rectangle	

AND THE SUM IS:

3.



Find the volume of the solid above.

(remember you are adding the volume of two rectangular prisms together.

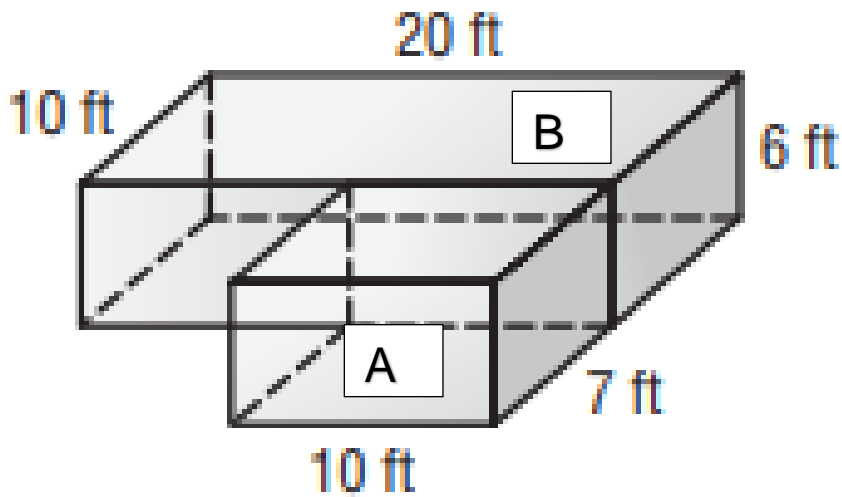
The formula for each is length x width x height)

PRISM	FORMULA AND WORK
Figure A	
Figure B	

AND THE SUM IS:

Find the total volume of this solid.

4.

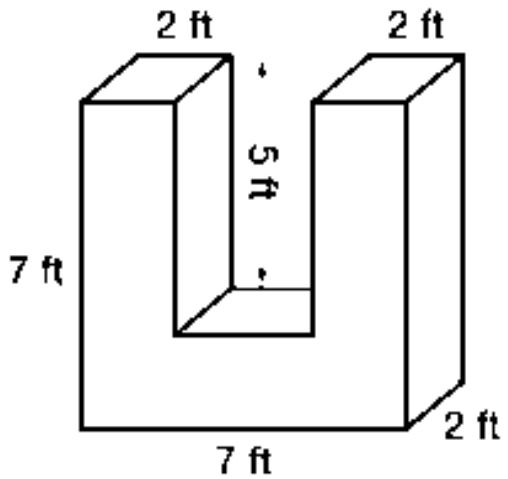


(remember you are adding the volume of two rectangular prisms together. The formula for each is length x width x height)

PRISM	FORMULA AND WORK
Figure A	
Figure B	

AND THE SUM IS:

5) **CHALLENGE** – try it!! If you get it – counts for 2 points for your Boot Camp group.



Mr. Jamison bought an entertainment center shown on the left. What is the volume of his new entertainment center? (HINT: Divide the figure up, but there is only one correct answer.)

Volume of a rectangular prism $V = Bh = (l \times w)h$	
Volume of a rectangular prism $V = Bh = (l \times w)h$	
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