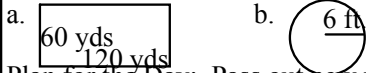


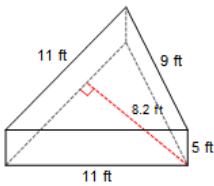
Problem of the Day: Find the area of the figures.



Plan for the Day: Pass out new weekly homework
 Integer quiz (if needed)
 Finish notes
 Graphing calculator introduction
 More practice with volume
 Objective: We will be able to find the volume of prisms.
 Happy Birthday to Jacob Barnes!!

For triangular prisms, the base is a triangle so we have to use the formula $A = \frac{1}{2}bh$ for B.

Example 4: Find the volume of the figure.



Example 5: Find the volume of the figure.

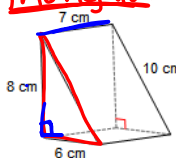
triangular prism $V = Bh$ $B = \frac{1}{2}bh$

$V = \frac{1}{2}bh \cdot h$

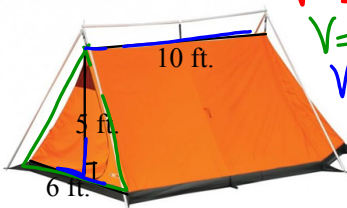
$V = \frac{1}{2} \cdot 8 \cdot 6 \cdot 7$

$V = 4 \cdot 42$

$V = 168 \text{ cm}^3$



Example 6: The Ross family has a tent that looks like a triangular prism. Find the amount of space in the tent pictured below.



$V = Bh$ $B = \frac{1}{2}bh$

$V = \frac{1}{2}bh \cdot h$

$V = \frac{1}{2} \cdot 6 \cdot 5 \cdot 10$

$V = 3 \cdot 50$

$V = 150 \text{ ft}^3$

- Big > small
 small < Big
1. $x = 24$
 2. $x = 1$
 3. $7 + 20x = 5 + 30x$ 13. B
 4. $x = 15$ > greater 14. B
 5. $x = 40$ < 15. C
 6. $12 - 5x > 18 - 2x$ 16. C
 7. C 8. D 9. B 10. A 17. B
 11. D 18. A
 12. A 19. D