

# 3.5) Formulas

Formulas

• Perimeter and Area of a Triangle:
$$P = a + b + c \qquad A = \frac{bh}{2}$$

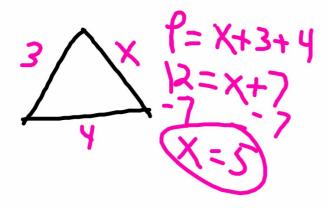
• Area of a rectangle:

$$A = l \bullet w$$

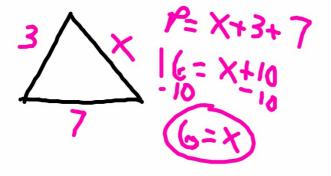
Volume of a box:

$$V = l \bullet w \bullet h$$

 1. Find the third side of triangle if the perimeter is 12 and the other sides have length of 3 and 4.



 2. Find the third side of triangle if the perimeter is 16 and the other sides have length of 3 and 7.



• 3. Find the area of triangle if the height is 10 and base is 5.

$$A = \frac{5}{3}$$

$$A = \frac{5}{3} = \frac{50}{3} = 25v^{2}$$

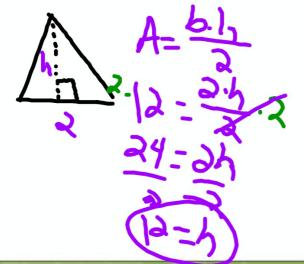
$$A = \frac{5}{3} = \frac{50}{3} = 25v^{2}$$

• 4. Find the area of triangle if the height is 7 and base is 9.

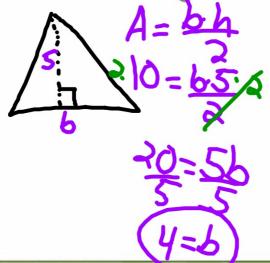
is 7 and base is 9.

$$A = \frac{b \cdot h}{3}$$
 $A = \frac{9.7}{3} = \frac{63}{31.5} = \frac{31.5}{31.5}$ 

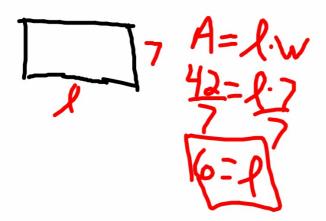
 5. Find the height of a triangle whose area is 12 and base is 2.



 6. Find the base of a triangle whose area is 10 and height is 5.

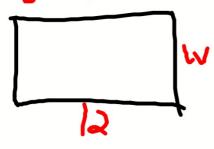


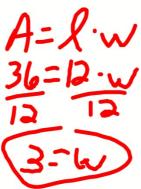
 7. Find the length of a rectangle whose width is 7 and are is 42.





o 8. Find the width of rectangle whose is 12 and area is 36.





 9. Find the height of a box whose others sides and 3 and 7 and volume is 42.

 10. Find the length of a box whose height is 10, width is 7 and volume is 2100.

# Homework o Wkst 3.7 C # 1-6

