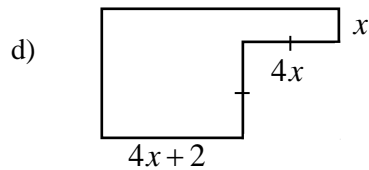
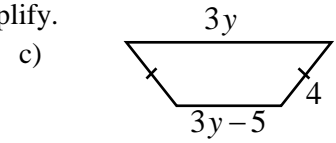
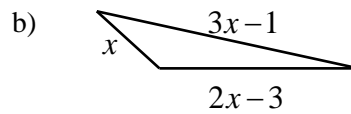
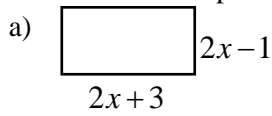


Polynomials and Geometry!

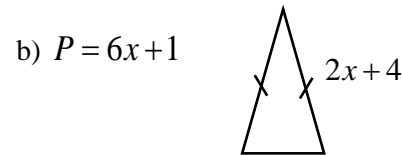
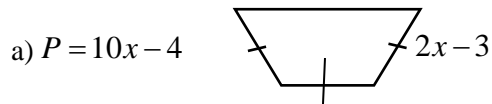


1. Determine an expression for the perimeter of the following shapes then simplify.

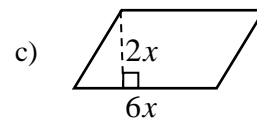
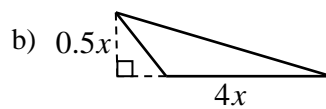
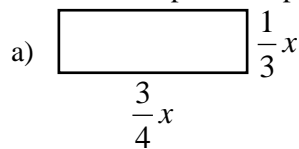


Hint –
perimeter is the
SUM of all of
the sides

2. Find an expression for the missing side length given the Perimeter, then simplify.

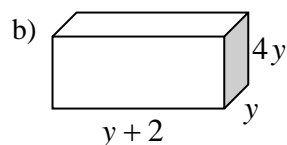
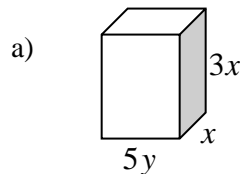


3. Find a simplified expression for the area of each polygon.



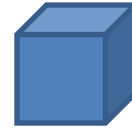
$A = b \times h$
 $A = b \times h \div 2$
for a triangle

4. Determine a simplified expression for the volume. (Volume = length x width x height)

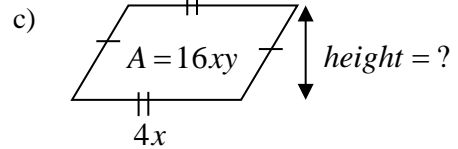
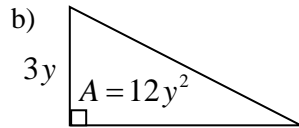
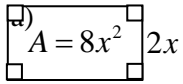


Polynomials and Geometry!

- c) Find the surface area of the cube with side lengths of $(3x)$



5. Given the area of each polygon find the missing dimension.



6. Determine the width of rectangle with $Area = 10x^2 - 15x$ and $length = 5x$.

7. Determine the height of a triangle if the $Area = 12x^3 - 6x$ and the $base = 4x$.

8. The Perimeter of a square is $8x^2 + 4x - 16$ meters. Find the length of each side.