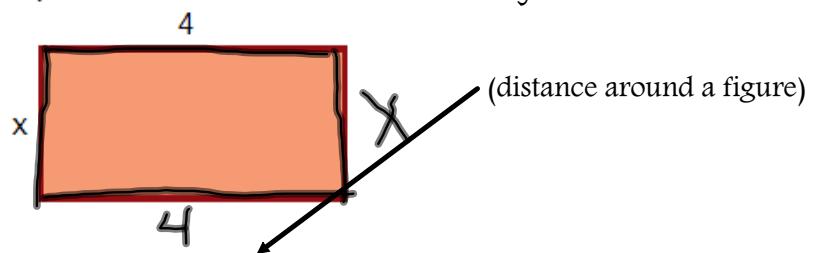


(P7)

**1 I Do**

Sally wants to put a fence around her rectangular garden. If the length is 4 cm and the width is represented by  $x$ .



- a) Write an expression for the perimeter in simplest terms.

$$\begin{aligned} & 4 + \cancel{x} + 4 + \cancel{x} \\ & \textcircled{1} \quad \textcircled{2} \quad \textcircled{3} \\ & 2x + 8 \end{aligned}$$

- b) Find the perimeter of garden if  $x = 2.5$

$$\begin{aligned} & 2(2.5) + 8 \\ & \textcircled{1} \quad \textcircled{2} \quad \textcircled{3} \\ & 13 \end{aligned}$$

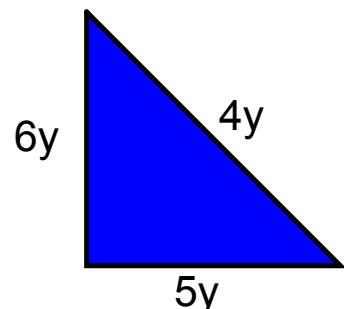
 WE Do

a) Find the perimeter of the triangle in simplest terms

$$(6y + 5y + 4y)$$

15y

A hand-drawn diagram of a triangle with its three sides labeled with algebraic expressions: the left side is  $6y$ , the top side is  $5y$ , and the right side is  $4y$ . A large circle encloses the sum  $15y$ , indicating that the perimeter is  $15y$ .



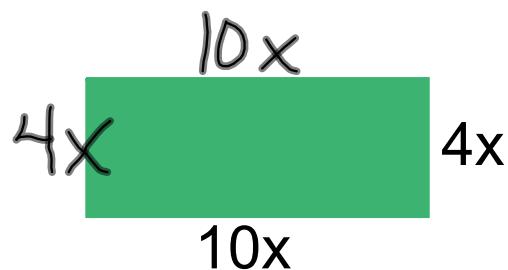
b) If  $y = 4$ , what is the perimeter?

$$15(4) = 60$$

 YOU DO

a) Write an expression for the perimeter of the square.

$$\begin{array}{r} 10x \\ + 4x \\ + 10x \\ + 4x \\ \hline 28x \end{array}$$



b) If  $x = 6$ , what is the perimeter?

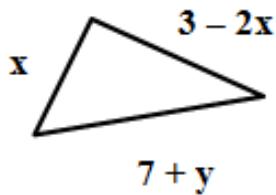
$$\begin{array}{r} 28(6) \\ \hline 168 \end{array}$$

Combining Like-Terms  
Day 4

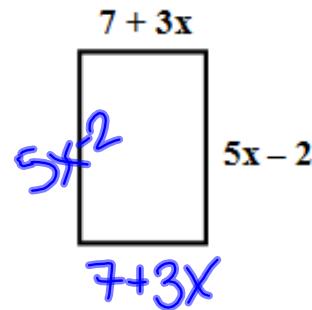
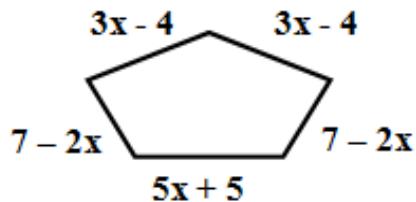
With your partner...

a) Find the perimeter of each figure shown below.

b) Find the perimeters given that  $x=3$ .



$$\begin{array}{r}
 |x \\
 3-2x \\
 +7 \quad +y \\
 \hline
 10-1x+1y
 \end{array}$$

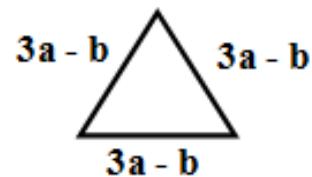
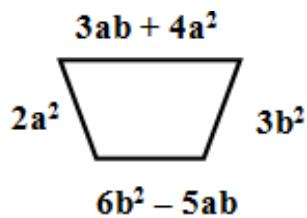
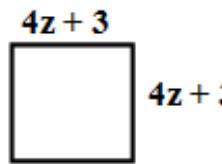


$$\begin{array}{r}
 a) \quad 7+3x \\
 -2+5x \\
 7+3x \\
 -2+5x \\
 \hline
 10+16x
 \end{array}$$

$$\begin{array}{r}
 10+16(3) \\
 58
 \end{array}$$

a) Find the perimeter of each figure shown below.

b) Find the perimeters given that  $z=2$ ,  $a=1$ , and  $b=5$ .



Why is the triangle's perimeter not possible?



# Homework

Which is an example of Associative Property of addition?

- a)  $(4 + 9) + 5 = 4 + (9 + 5)$
- b)  $7 + (-7) = 0$
- c)  $3 + 4 = 4 + 3$
- d)  $2 + 0 = 2$

Simplify:  $8(y + z)$

Simplify:  $\frac{1}{2}(2x - 10)$

Which of the following expression is equivalent to  $5(2m + 3) + 5m$ ?

- a)  $15m + 3$
- b)  $10m + 8$
- c)  $15(m + 1)$
- d)  $15m + 5$

Write an expression equivalent to  $4a + 4a + 4a$

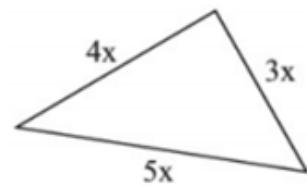
Write an equivalent expression for  $3(x - 4) - 3$

## Homework

Simplify:  $1.5x + 7.6y + 2.5x - 4.6y$

Simplify:  $-7x + 3y + 5x$

a) Find the perimeter of the triangle in simplest terms



b) If  $x = 7$ , what is the perimeter?