

Name: \_\_\_\_\_

Write a number in every blank to make true equations.

1.  $2.3 + 0.5(3 + x) = \underline{\quad} x + \underline{\quad}$

2.  $\frac{8}{6} + (\frac{3}{8} + x)(2) = \underline{\quad} x + \underline{\quad}$

3.  $2y + 3x + 5y + 6x * 4 = \underline{\quad} x + \underline{\quad} y + \underline{\quad}$

4.

a. Circle all the expressions that are equivalent to  $7b + 38$ .

$$7(b + 5) + 3$$

$$7b + 7 \times 8$$

$$b + 38$$

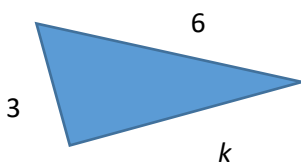
$$7b + (7 \times 5) + 3$$

b. Show that the expressions you circled above are equivalent to  $7b + 38$ .

5. There is one mistake in the work shown below. Find the mistake. Write the correct result next to where the mistake occurred.

$P + P + 6(3P + 4) + 4P$	$= 2P + 6(3P + 4) + 4P$	
	$= 6(3P + 4) + 2P + 4P$	
	$= (3P + 4) + 6 + 2P + 4P$	
	$= (3P + 4) + 6 + 6P$	

6. Write an expression for the perimeter of this triangle. \_\_\_\_\_



7.

a. A square bathroom tile has a length of  $T$ . Write an expression for the area of this tile.

\_\_\_\_\_



b. Use this expression to find the area of the tile if the side length is 9 cm.

\_\_\_\_\_

8. Write an expression for “add 9 to  $A$  then multiply by 2.” \_\_\_\_\_

9. A three digit number has a hundreds digit  $S$ , tens digit  $T$ , and ones digit  $U$ .

$S$	$T$	$U$
↑	↑	↑
hundreds	tens	ones
digit	digit	digit

Write an expression that gives the value of the number.

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