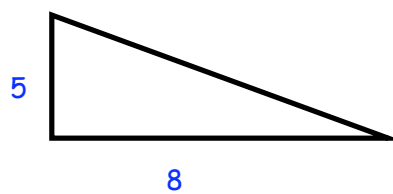


Chapter 9.5  
Associative Property of Multiplication



Associative Property of Addition

$$12 + (7+2) \quad \text{and} \quad (12+7)+2$$

$$36 \div (6 \div 2) \quad \text{and} \quad (36 \div 6) \div 2$$

$$12 - (7-2) \quad \text{and} \quad (12-7)-2$$

Commutative Property of Addition  
 $a+b = b+a$

Commutative Property of Multiplication  
 $a \cdot b = b \cdot a$

Zero Product Property

$$x(y) = 0$$

either  $x$  or  $y$  or both are zero

$$x(x-2)=0$$

$$x(5-9) = 0$$

$$(x-3)(x+4)=0$$

