

Warm-Up:

1) Evaluate and name the property in each step.

$$5(4 - 3) - 5$$

$$5(1) - 5$$

$$5 - 5$$

$$0$$

Substitution

Mult. Identity

Add. Inverses

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20, 24, 38

$$20) \frac{3}{4} [4 \div (7-4)]$$

$$\frac{3}{4} [4 \div 3]$$

Substitution

$$\frac{3}{4} \left[\frac{4}{3} \right]$$

1

Mult. Inverses

$$24) 1427.40 + e = 1427.40$$

$$e = 0 \quad \text{Add. Identity}$$

$$38) \frac{0}{\quad} \frac{1}{\quad}$$

Anything times zero is zero,
never one.Cannot divide by zero.
It is undefined.

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Section 1-5: Distributive Property

$$9, w, 9w$$

A term is a number, variable, or product of the two.

If terms contain the exact same variables with the exact same exponents, they are like terms.

$$9w + 17w$$

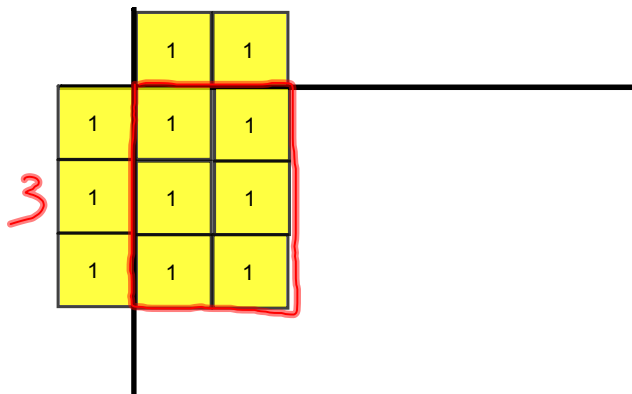
The coefficient is the number of the term.

$$9w \quad 17w$$

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Show

$$2(3) = 6$$



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Show
 $2(3 + x) = 6 + 2x$

	1	1	
1	1	1	
1	1	1	
1	1	1	
x	x	x	

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Show
 $3(x - 2) = 3x - 6$

	1	1	1
x	x	x	x
-1	-1	-1	-1
-1	-1	-1	-1

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The Distributive Property:For any numbers a , b , and c ,

$$a(b + c) = ab + ac \quad \text{and} \quad (b + c)a = ab + ac$$

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Examples:

1) Julia walks 5 days a week. She walks at a fast rate for 7 minutes and cools down for 2 minutes. Rewrite $5(7 + 2)$ using the distributive property. Evaluate to find the total number of minutes she walks per week.

$$\begin{array}{l} 5(7+2) \\ 35+10 \\ \textcircled{45 \text{ mins}} \end{array}$$

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Examples:

2) Use the distributive property to rewrite $12 \cdot 82$. Then evaluate.

$$12(80+2) \\ 960+24 \quad \text{984}$$

Rewrite each product using the distributive property. Then simplify.

3) $12(y+3) = 12y+36$

4) $4(y^2+8y+2) = 4y^2+32y+8$

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Examples:

Simplify.

5) $17a + 21a$

$$38a$$

6) $12b^2 - 8b^2 + 6b$

$$4b^2 + 6b$$

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Homework: pg 29-31 #8, 12, 18-26 even,
28-35 all, 46, 48, 49

Section 1-5 Vocab

Book Covers By Sept. 2nd

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