N WEA Test Day HW)

Simplify each expression by applying the distributive property.

(a)
$$3(x-2)$$

(b)
$$5(a-b)$$

(c)
$$-7(y-8)$$

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$$3(x-2)$$
 (b) $5(a-b)$ (c) $-7(y-8)$ (d) $-6(x+7)$

Simplify each expression by using the distributive property and combining like terms where possible.

(a)
$$3(x+6)-2$$

(b)
$$7y+2(y-5)+y$$

(b)
$$7y+2(y-5)+y$$
 (c) $-5(x-2)-2x+6$

Guided Practice

Simplify each expression by combining like terms [if possible].

1.
$$32y + 17y$$

2.
$$8.3p^2 + 4.8p$$

3.
$$-22n+18n-15$$

4.
$$3x + 8x^2 - 11x$$

5.
$$-6+7m+8$$

6.
$$9x^2 - 4x - 12x - 15x^2$$

Simplify each expression by using the distributive property and combining like terms where possible.

7.
$$-3(8x+4)+\frac{1}{2}(6x-24)$$
 8. $4(x+9)+5x$

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9.
$$-2(y-6)+12$$

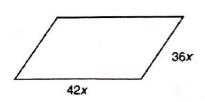
10.
$$\frac{1}{3}(3x-9)+13x$$

11.
$$5x - \frac{1}{4}(8x^2 - 20x)$$

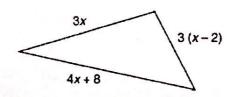
11.
$$5x - \frac{1}{4}(8x^2 - 20x)$$
 12. $-4(3d-1) + 2(7d+9)$

Write an expression for the perimeter of the figures shown below.

13.



14.



Solving One-Step Equations Review & Practice

One Step Addition Example

$$y + 14 = 20$$

-14 -14
 $y = 6 \checkmark$

ONE STEP SUBTRACTION EXAMPLE

$$x - 120 = 80$$

+120 +120
 $x = 200 \checkmark$

The value which makes the equation true is 200

Multiplication Example

The Opposite of Multiplication is Division

$$3n = 12$$

$$\frac{8n}{3} = \frac{12}{3}$$

$$3/3 \text{ cancels down to become } 1/1 = 1$$

$$n = 4 \checkmark \text{ In is simply "n"}$$
The volve which makes the equation true is 4.

One Step Division Example

The Opposite of Division is Multiplication

The Opposite of Division is Multiplication.

$$\frac{k}{2} = 16$$
 $\frac{k}{2}$
 $\frac{k}{2} = 16 \times 2$
 $\frac{2/2 \text{ cancels down to become } 1/1 = 1}{k}$
 $\frac{k}{2} = 32$
 $\frac{k}{2} = 32$
 $\frac{k}{2} = 32$

The value which makes the equation true is 32

Solve each equation for the indicated variable.

1.
$$x-(-3)=17$$

2.
$$41 = w - 4$$

3.
$$k-8=-19$$

4.
$$t-5=12$$

5.
$$-2+d=97$$

6.
$$-7 + x = -18$$

7.
$$\frac{5}{8} = t - \frac{3}{8}$$

8.
$$-\frac{3}{7}+c=-\frac{3}{7}$$

9.
$$x-\frac{4}{7}=\frac{3}{7}$$

10.
$$\frac{k}{9} = -8$$

11.
$$\frac{x}{-12} = -4$$

12.
$$-16 = \frac{t}{-2}$$

13.
$$24x = -12$$

14.
$$-y = -145$$

15.
$$-7m = -49$$