Warm-up 9-18

Solve the following equations.

$$1. -20 = -4x - 6x$$

2.
$$p - 4 = -(9 + 2p)$$

3.
$$12 = 4(-6x - 3)$$

4.
$$3n - 5 = -8(6 + 5n)$$

Warm-up 9-18

Solve the following equations.

1.
$$-20 = 4x \cdot 6x$$

 $-20 = -10x$
 -10
 $2 = x \quad x = 2$

3.
$$12 = 4(-6x - 3)$$

$$12 = -24x - 12$$

$$+12 + 13$$

$$24 = -24x$$

$$-24 - 24x$$

$$-1 = x \quad x = -1$$

2.
$$p-4=-(9+2p)$$

$$p-4=-9+2p$$

$$3p+4=-9$$

$$3p+4=-9$$

$$3p-4=-9$$

$$3p-4=-9$$

$$3p-4=-9$$

$$3p-4=-9$$

$$3p-4=-9$$

$$3p-4=-9$$

$$3p-4=-9$$

$$3p-4=-9$$

$$43n-5=-48$$

$$43n-5=-48$$

$$43n=-43$$

$$43n=-43$$

$$43n=-43$$

$$43n=-43$$

Warm-up 9-18

Solve the following equations.

1.
$$-20 = 4x - 6x$$

 $-26 = -0x$
 $-10 = -18$
2 - x $x = 2$

3.
$$12 = 4(-6x - 3)$$

$$12 = -24x - 12$$

$$+12$$

$$+12$$

$$-24 = -24x$$

$$-24$$

$$-1=x$$

$$(X=-1)$$

2.
$$p-4=4(9+2p)$$

$$p-4=-9-2p$$

$$3p-4=-9$$

$$3p-4=-9$$

$$3p=-3$$
4. $3n-5=-8(6+5n)$

$$3n-5=-48+-40n$$

$$-3n$$

$$-3n$$

$$-43$$

$$-43$$

$$-43$$

$$-43$$

$$-43$$

$$-43$$

$$-43$$

$$-1$$

Section 2.4:

Today's Goal

To be able to solve for a specific variable in a Literal Equation.

Section 2.4: Using Formulas and Solving Literal Equations

$$7 = 100$$

 $x = -\frac{b+1}{2a}$
 $\frac{1+-e}{x}$
 $\frac{1+-e}{x}$

Literal Equations

- equations with actual meanings
- each variable stands for a specific Value
- Solving the literal equations means solving for one of the variables
- end up with an equation

$$V = Y = Y$$
Solve for W
 $V = Y - L$

$$\frac{tu}{t} = \frac{2m + y}{t} \text{ solve for u.}$$

$$U = \frac{2m + y}{t}$$

$$\frac{xy}{m} = k$$
 Solve for y
$$\frac{xy - Km}{x}$$

2.
$$2B+2H = P$$
 solve for H
 $-28 - 2B$
 $2H = P - 2B$
 $1 - 2B$
 $1 - 2B$
 $1 - 2B$

$$3.2m + 3 = n$$
 Solve for m

4.
$$6g = h$$
 solve for g

5.
$$\frac{2}{w} + y = z$$
 solve for w

$$2 = (2+y)w$$

$$2 = (2+y)w$$

$$4 = (2+y)w$$

$$4 = (2+y)w$$

$$4 = (2+y)w$$

$$4 = (2+y)w$$

6.
$$r + \underline{s} = u$$
 solve for t.

3.
$$2m + 13 = n$$
 Solve for m
$$\frac{2m = n - 3}{2}$$

$$M = \frac{N-3}{2}$$

$$4x6a = hR$$
 solve for g

5.
$$\frac{2}{w} + y = z$$
 solve for w

6.
$$r + \underline{s} = u$$
 solve for t.

Solve

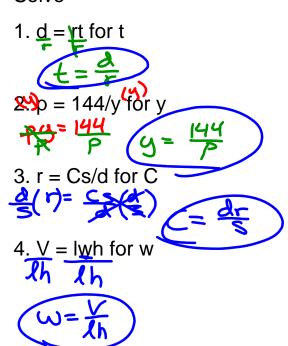
1.
$$d = rt$$
 for t

2.
$$p = 144/y$$
 for y

3.
$$r = Cs/d$$
 for C

4.
$$V = lwh for w$$

Solve



1. If s=10 and d=5 what V=?

2. If d=8 and V=7 what s=?

$$F = ma$$

- 3. F= 5 and m=10 what a=?
- 4. a=240 and m=60 what F=?

1. If s=10 and d=5 what V=?

2. If d=8 and V=7 what s=?

$$F = ma$$

3. F= 5 and m=10 what a=?

$$\frac{f^{-}mx}{a}$$
 $m = \frac{f}{a}$ $m = \frac{1}{2}$

4. a=240 and m=60 what F=?

Classwork

pg. 51-52

#1-6, 30-37

Homework

pg. 51-52 #9-15, 30-32

and Worksheet

2.2 Literal Equations.notebook

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Two-Step Equations

Solve each equation.



3)
$$9x - 7 = -7$$

$$5) -4 = \frac{r}{20} - 5$$

7)
$$\frac{v+9}{3} = 8$$

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Two-Step Equations

Solve each equation.

1)
$$6 = \frac{a}{4} + 2$$

3)
$$9x - 7 = -7$$

5)
$$-4 = \frac{r}{20} - 5$$

7)
$$\frac{v+9}{3} = 8$$

Name______Period____

2)
$$-6 + \frac{x}{4} = -5$$

4)
$$0 = 4 + \frac{n}{5}$$

6)
$$-1 = \frac{5+x}{6}$$

8)
$$2(n+5) = -2$$

2) $-6 + \frac{x}{4} = -5$

4)
$$0 = 4 + \frac{n}{5}$$

6)
$$-1 = \frac{5+x}{6}$$

8)
$$2(n+5) = -2$$

9)
$$-8 = -(x+4)$$

10)
$$12 = -4(-6x - 3)$$

11)
$$14 = -(p-8)$$

12)
$$-(7-4x)=9$$

13)
$$-18 - 6k = 6(1 + 3k)$$

14)
$$5n + 34 = -2(1 - 7n)$$

15)
$$2(4x-3)-8=4+2x$$

16)
$$3n-5=-8(6+5n)$$

9)
$$-8 = -(x+4)$$

10)
$$12 = -4(-6x - 3)$$

11)
$$14 = -(p-8)$$

12)
$$-(7-4x)=9$$

13)
$$-18 - 6k = 6(1 + 3k)$$

14)
$$5n + 34 = -2(1 - 7n)$$

15)
$$2(4x-3)-8=4+2x$$

16)
$$3n-5=-8(6+5n)$$

Two-Step Equations

Date_____ Period____

Solve each equation.

1)
$$6 = \frac{a}{4} + 2$$
 {16}

$$2) -6 + \frac{x}{4} = -5$$

$$\{4\}$$

3)
$$9x - 7 = -7$$
 {0}

4)
$$0 = 4 + \frac{n}{5}$$
 {-20}

$$5) -4 = \frac{r}{20} - 5$$

$$\{20\}$$

$$6) -1 = \frac{5+x}{6}$$
$$\{-11\}$$

7)
$$\frac{v+9}{3} = 8$$

8)
$$2(n+5) = -2$$
 {-6}

9)
$$-8 = -(x+4)$$

{4}

10)
$$12 = -4(-6x - 3)$$
 {0}

11)
$$14 = -(p - 8)$$
 {-6}

12)
$$-(7-4x) = 9$$

13)
$$-18 - 6k = 6(1 + 3k)$$
 {-1}

14)
$$5n + 34 = -2(1 - 7n)$$
 {4}

15)
$$2(4x-3)-8=4+2x$$
 {3}

16)
$$3n - 5 = -8(6 + 5n)$$

 $\{-1\}$