## Warm up:

Solve.

$$-45 -4$$

$$= 3(3/4) + (8) = 3$$

$$= 3/4 + 4$$

$$= 3/4$$

$$= 3/4$$

$$= 3/4$$

## **HW Solutions**

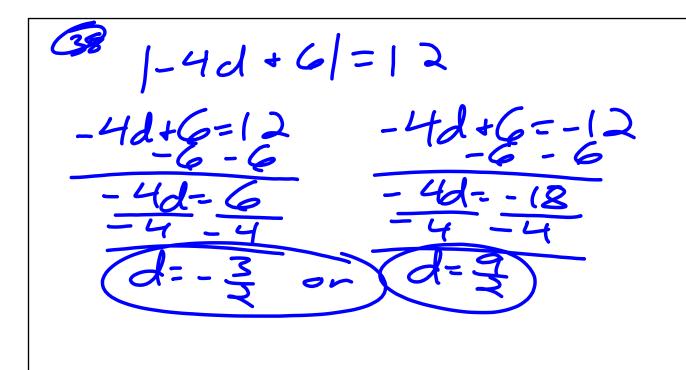
$$\frac{|2 \times -3|}{|2 \times -3|} = 8$$

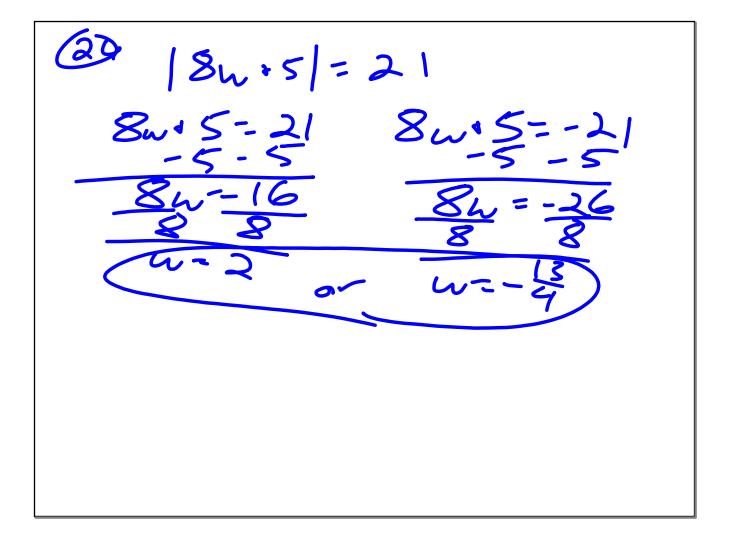
$$\frac{30}{4} \begin{vmatrix} \frac{3}{4}a - 3 \end{vmatrix} = 9$$

$$\frac{3}{4}a - 3 = 9$$

$$\frac{3}{4}a - 3 = -9$$

$$\frac{4}{3}a - 3$$



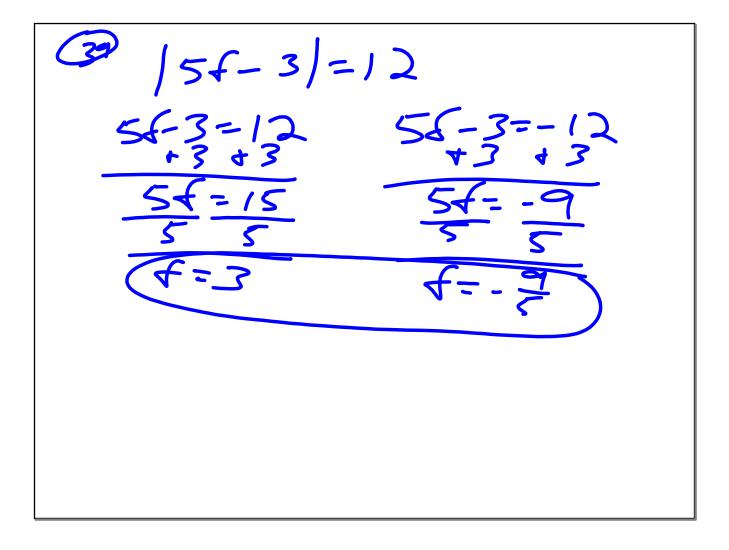


$$\frac{4 - 3}{-4} = 10$$

$$\frac{-3}{2} = 6$$

$$\frac{-3}{-3} = -3$$

$$\frac{|2| = -2}{\text{no solution}}$$



1) 
$$|n| - 2 = 16$$
 2)  $-7|x| + 5 = 2$   
3)  $4 + |3x - 1| = 19$ 

- 4) Josh has four dollars more than five times as much as Vince. Together they have \$76. How much money does each person have?
- 5) A 1000L tank now contains 240 L of water. How long will it take to fill the tank using a pump that pumps 25L/min?
- 6) A company added a new oil tank that holds 350 barrels of oil more than its old oil tank. Together they hold 3650 barrels of oil. How much does each tank hold?

1) 
$$|n| - 2 = 16$$
  
+2 +2  
 $|n| = 18$   
 $n = 18$ ,  $-18$ 

2) 
$$-7|x| + 5 = 2$$
  
 $-7/x/= -3$   
 $|x| = 3$   
 $x = \pm 3$ 

3) 
$$4 + |3x - 1| = 19$$
 $-4$ 
 $|3x - 1| = 15$ 
 $|3x - 1| = 15$ 

4) Josh has four dollars more than five times as much as Vince. Together they have \$76. How much money does each person have?

5v+4+v= 6v+4=76 -4-4 6v=72

60=72 504->4 V=12 5) A 1000L tank now contains 240 L of water. How long will it take to fill the tank using a pump that pumps 25L/min?

$$\frac{240}{240} + 25m = 1000$$

$$\frac{25m}{25} - 760$$

$$\frac{25m}{25} - 30.4$$

$$30.4min$$

barrels of oil more than its old oil tank. Together they hold 3650 barrels of oil. How much does each tank hold?	

