Warm-Up

February 23, 2017

Solve and Graph

LCM

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

(20) (20) (20)

$$\frac{-40x}{4} + \frac{120}{5} \leq \frac{100}{4}$$

$$-10x + 24 \leq 25$$

$$-10x + 24 - 24 \leq 25 - 24$$

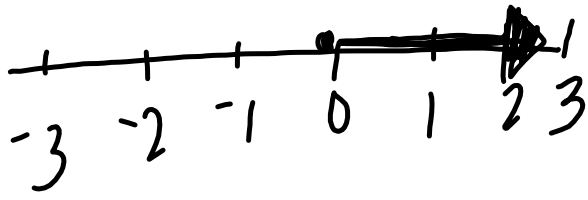
$$\frac{-10x}{-10} \leq \frac{1}{-10}$$

Last step!

$$x \geq \frac{-1}{10}$$

$$x \geq -0.1$$

-0.1



2. A taxicab charges $2.50, plus $1.78 per kilometre.

identifies the variable

A. Write a "let" statement.

Let "d" represent distance.
Let "K" represent kilometers

B. Write an equaon for the cost of the taxi ride.

$C = 2.50 + 1.78d$. $d = 10KM$

$C = 2.50 + 1.78(10)$

$C = 2.5 + 17.80$

$d = 3\text{ km}$ $C = 2 + 3d$

$2 + 3(3)$

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3. State 3 values of the variable that satisfy each inequality.

a) $c < 7$ 4, -4.2, 0

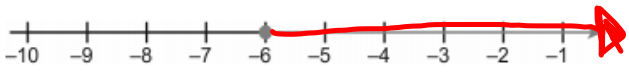
b) $a \geq -3$ -3, 0, 4.2

c) $5 < n$ $n > 5$ 10, 62, 512

d) $-1 \geq y$ $y \leq -1$ -10, -4.2, -1

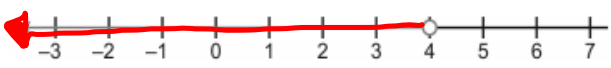
4. Write the inequality that is graphed on each number line.

a)



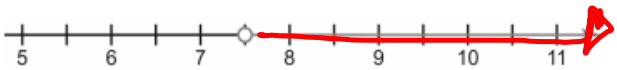
$x \geq -6$

b)



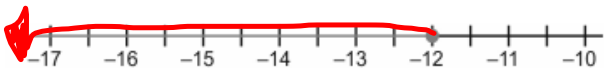
$x < 4$

c)



$x > 7.5$

d)



$x \leq -12$

3. Write an inequality to describe each situation, then graph it.

Let "L" equal litres of gas

a) The gas tank in a car contains no more than 55 L of gas. $l \leq 55$

b) The minimum age you must be to watch the movie is 13. $a \geq 13$

Let "a" equal age.

Skateboards can be rented from two shops in a park.

Shop Y charges $15 plus $3 per hour
Shop Z charges $12 plus $4 per hour

A. Write a "let" statement to represent the variable

Let "h" represent hours.

B. write an expression for each shop

Shop Y $15+3h$

Shop Z $12+4h$

C. Determine the number of hours that will make the cost of shop Y equal to shop Z

$$\text{shop Y} = \text{shop Z}$$
$$15+3h = 12+4h$$
$$15+3h-4h = 12+4h-4h$$
$$15-1h = 12$$
$$15-15-1h = 12-15$$
$$\frac{-1h}{-1} = \frac{-3}{-1}$$
$$h = 3$$

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3, 9 [a,c,e], 11 [a,c], 12 [a,c], 17 [b]

Test Practice

Textbook--- Page 308	**3, 4, 7**
Page 309	**8, 10, 11, 12, 15,16**
Practice Test	
Page 310	**2, 3, 4**