

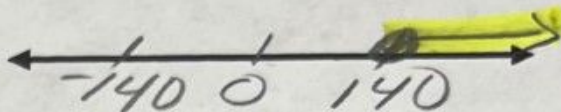
HW: Nov. 16 Answer Key

HOMWORK: Use page 9 to show your work.

Directions: #s 1-4: Write an inequality to represent the statement. Then graph its solution set.

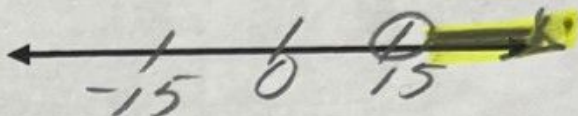
1. The Devito family spent no less than \$140 for dinner.

$$\underline{x \geq 140}$$



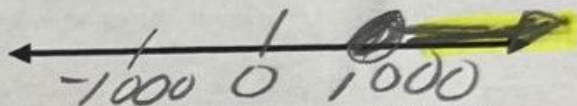
2. The waiting time for a table is more than 15 minutes.

$$\underline{x > 15}$$



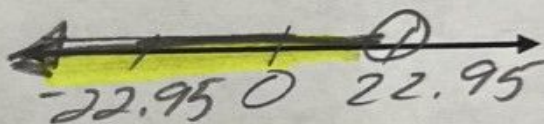
3. At Bellport Middle School, there are no less than 1,000 students.

$$\underline{x \geq 1000}$$



4. The price of all special dinner entrees is below \$22.95.

$$\underline{x < 22.95}$$

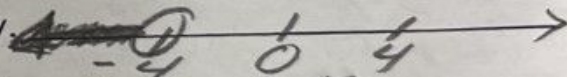


5. Given the inequality: $-4 > x$

- a. Write the inequality in sentence form.

-4 is greater than x

- b. Graph the solution set for the inequality.



- c. Can the solution set contain -4? Explain.

no, b/c -4 is not greater than -4.

Review: Solve for each equation by clearing the fractions and decimals.

6.

$$\frac{1}{6}w + \frac{5}{8} = -11$$

7.

$$-3x - 4.6 = 5.9 - 5x$$

8.

$$3(h - 4) = 12h + 16 - 9h$$

9.

$$15 - 2(4n + 7) = -6n - 2(n + 1) + 3$$

HW: Nov. 16 Answer Key

HW: Inequality

9

LCD

$$6) 24 \left[\frac{1}{8}w + \frac{5}{8} = \frac{-11}{1} \right]$$

$$4w + 15 = -264$$

$$\underline{-15 \quad -15}$$

$$\frac{4w}{4} = \frac{-279}{4}$$

$$w = 69.75$$

$$7) \overset{10}{[-3x - 4.6 = 5.9 - 5x]}$$

$$\underline{-30x - 46 = 59 - 50x}$$

$$\underline{+50x \quad +50x}$$

$$20x - 46 = 59$$

$$\underline{+46 \quad +46}$$

$$\frac{20x}{20} = \frac{105}{20}$$

$$x = 5.25$$

$$8) 3(h-4) = 12h + 16 - 9h$$

$$3h - 12 = 3h + 16$$

$$\underline{-3h \quad -3h}$$

$$-12 \neq 16$$

no solution

$$9) 15 - 2(4n+7) = -6n - 2(n+1) + 3$$

$$15 - 8n - 14 = -6n - 2n - 2 + 3$$

$$-8n + 1 = -8n + 1$$

same

all real #s