

Name: _____

Date: _____

GREEN Chapter 7 Practice 2

Write an equation to match the word sentence. (1pt each)

1) The sum of a number x and 5 is 19.

Answers

1) $x + 5 = 19$

4) 50 is 30 less than a number x

4) $50 = x - 30$

Solve the equation. (2pts each)

5) $e - 5.6 = 17.7$

$+5.6 \mid 5.6$

5) $e = 23.3$

6) $f + 1\frac{2}{5} = 4\frac{1}{4}$

$-1\frac{2}{5} \mid -1\frac{2}{5}$

6) $f = 2\frac{17}{20}$

7) $4g = 64$

$\div 4 \mid \div 4$

7) $g = 16$

8) $30 = \frac{h}{4.5}$

$\times 4.5 \mid \times 4.5$

8) $h = 135$

Tell whether the ordered pair is a solution of the equation. (1pt each)

9) $y = x + 15$. (2, 13)

$$y = 2 + 15$$

$$13 \neq 17$$

9) NO

10) $y = 4x$ (8, 87)

$$y = 4(8)$$

$$87 \neq 32$$

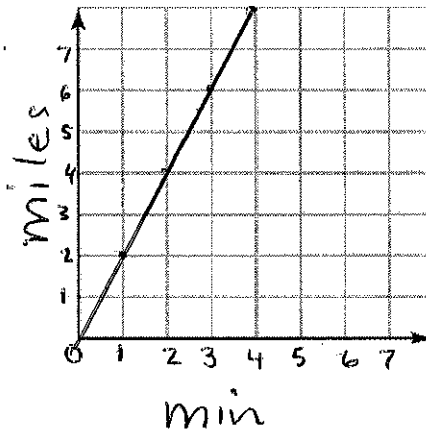
10) NO

Write and graph an equation in two variables that shows the relationship between time and distance.

11) 2 miles per minute

$$y = 2x$$

x	y
0	0
1	2
2	4
3	6



11) $y = 2x$

Write the word sentence as an inequality. (1pt each)

12) A number h is least 30.

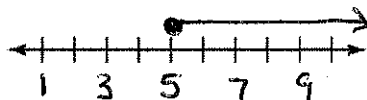
12) $h \geq 30$

14) Triple a number n is less than 12.

14) $3n < 12$

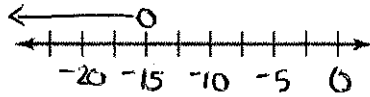
Graph the solutions of each inequality. (1pt)

16) $p \geq 5$



16) see left

17) $q < -15$

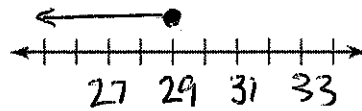


17) see left

Solve the inequality, then graph. (2pts)

20) $u - 8 \leq 21$

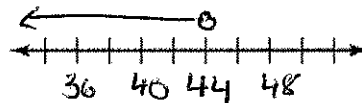
$$\begin{array}{r} +8 \quad | \quad +8 \\ \hline u \leq 29 \end{array}$$



20) $u \leq 29$

21) $\frac{v}{4} < 11$

$$\begin{array}{r} \times 4 \quad | \quad \times 4 \\ \hline \end{array}$$



21) $v < 44$

23) A disc will hold up to 200 minutes of music. The songs on the disc are 24 minutes long altogether. Write and solve an inequality to find how many more minutes of music you could add to the disc.

$$\begin{array}{r} 200 \geq x + 24 \\ -24 \quad | \quad -24 \\ \hline 176 \geq x \end{array}$$

Inequality: $x \leq 176$

23) see left

24) An acting class divides into 7 teams that each have at most 5 students.

a. Write and solve an inequality to represent the number of students in the class.

$$\begin{array}{r} \frac{x}{7} \leq 5 \\ \times 7 \quad | \quad \times 7 \\ \hline x \leq 35 \end{array}$$

Inequality: $x \leq 35$

b. Each team has at least three students. Could there be 50 students in the class? Explain why or why not.

No, the minimum number of students is $7 \times 3 = 21$, the maximum number of students is $7 \times 5 = 35$.

50 is greater than the maximum number of students so can not happen.