NAME _____ DATE _____

Chapter 6, Quiz A (Lessons 6.1 + 6.2) Homework after Ch. 5 Test

Solve and check each inequality.

1. $w + 9 \leq -5$
2. $\frac{1}{4} + m \geq \frac{3}{4}$
3. $5x - 10 \leq 6x$
4. $-8 + 9r > 10r - 23$
5. $-3n \leq 84$
6. $\frac{m}{13} > -6$
7. $-\frac{4}{9} < -\frac{5}{12}r$
8. $-3.22 \geq 1.4w$
9. Write an inequality and solve:
   Two times a number is at least 16; find the number.
10. Define a variable, write an inequality, and solve:
    Rita plans to spend at most \$115.00 on a skirt and two blouses. She bought the two blouses for \$38.95 each. How much can she spend on the skirt?

1. $\{w \mid w \leq -14\}$
2. $\{m \mid m \geq 1/2\}$
3. $\{x \mid x \geq -10\}$
4. $\{r \mid r < 15\}$
5. $n \mid n \geq -28\}$
6. $\{m \mid m > -78\}$
7. $\{r \mid r < 1\frac{1}{15}\}$
8. $\{w \mid w \leq -2,3\}$
9. $2n \geq 16$; $n \geq 8$
10. $2(38.95) + s \leq 115$
    \$37.10 or less

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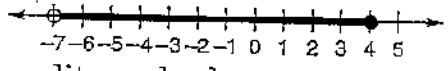
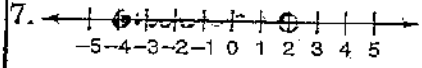
Chapter 6, Quiz B (Lessons 6.1 + 6.2)

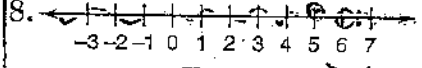
Solve and check each inequality.

1. $-\frac{3r}{8} > \frac{5}{7}$
2. $-\frac{d}{5} - 12 \geq 8$
3. $9y - 6 > 2y + 15$
4. $0.2(x + 20) \leq 0.5(3x + 8)$
5. $-6 < 5y - (2y - 9)$
6. $4 + 2(5x - 6) > 14x$
7. Graph the solution set of $x \geq -4$ and $x < 2$ on the number line provided.
8. Solve the compound inequality $2y - 3 \leq 7$ or $-3y \leq -18$ and graph the solution set on the number line provided.
9. Write a compound inequality for the solution set that is graphed.



10. Write a compound inequality and solve:
    Eight times an integer is between 16 and 40; find all possible values for the integer.

1. $\{r \mid r < -1\frac{12}{21}\}$
2. $\{d \mid d \leq -100\}$
3. $\{y \mid y > 3\}$
4. $\{x \mid x \geq 0\}$
5. $\{y \mid y > -5\}$
6. $\{x \mid x < -2\}$
7. 

8. 

   $y \leq 5$ or $y \geq 6$
9. $4 \geq x > -7$
10. $16 < 8x < 40$
    2, 4