Name _____ Date _____

Review Worksheet 8: *Practice for Written Sections of Test 8* Math8

1. Use the Distributive Property to rewrite each expression.

a. $7(x + 9)$ **b.** $-4(y + 5)$

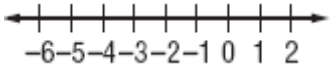
2. Simplify $13 - 4y + y$.

3. Solve each equation. Check your solution.

a. $11d - 8 = 36$ **b.** $14 = -g + 6 - 3g$ **c.** $\frac{m}{3} - 2 = 1$

4. Nine less than ten times a number is one.
Translate this sentence into an equation. Then find the number.

5. Graph $w > -5$ on a number line.



6. Write an inequality for each sentence.

a. You must earn at least 70% to pass.

b. An average person should consume no more than 2,200 Calories each day.

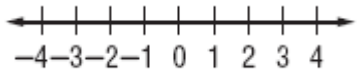
7. A number is multiplied by 7, then subtracted from 55. The result, when multiplied by 2, is 54. What is the number? Solve using the guess and check strategy.

8. It takes Ahmad and Jakob 15 minutes to play a game of checkers and 40 minutes to play two games of chess. If they spend an hour playing checkers and two hours playing chess, how many games of each have they played? Solve using the guess and check strategy.

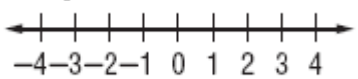
9. State whether the following inequality is *true* or *false* for the given value: $42 + 2x > 59$, $x = 5$.

10. Solve each inequality and check your solution. Then graph the solution on a number line.

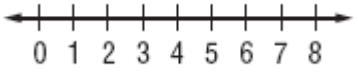
a. $p - 3 < -1$



b. $-\frac{y}{5} + 1 > 1$



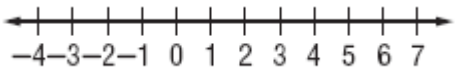
c. $7 \leq 2c - 3$



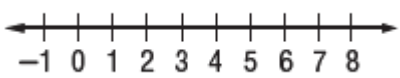
11. Write and solve an inequality for the phrase *the product of –3 and a number is less than –45.*

12. Solve each inequality and check your solution.
Then graph the solution on a number line.

a. $p - 3 < 1$



b. $7 \leq 2c - 3$



Review WS 8
Answer Section

SHORT ANSWER

1. ANS:
$7x + 63$

PTS: 1

2. ANS:
$-4y - 20$

PTS: 1

3. ANS:
$13 - 3y$

PTS: 1

4. ANS:
4

PTS: 1

5. ANS:
-2

PTS: 1

6. ANS:
9

PTS: 1

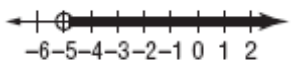
7. ANS:
$10n - 9 = 1$; 1

PTS: 1

8. ANS:
$3s + 15 = 90$; \$25

PTS: 1

9. ANS:



PTS: 1

10. ANS:
$p \geq 70$

PTS: 1

11. ANS:
$c \leq 2{,}200$

PTS: 1

12. ANS:
4

PTS: 1

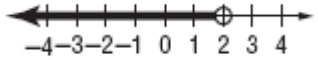
13. ANS:
4 games of checkers, 6 games of chess

PTS: 1

14. ANS:
false

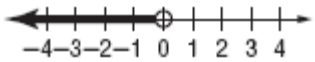
PTS: 1

15. ANS:
$p < 2$



PTS: 1

16. ANS:
$y < 0$



PTS: 1

17. ANS:
$c \geq 5$

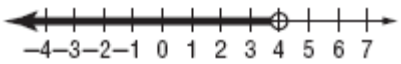
PTS: 1

18. ANS:
$-3n < -45$; $n > 15$

PTS: 1

19. ANS:

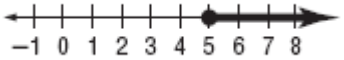
$p < 4$



PTS: 1

20. ANS:

$c \geq 5$



PTS: 1