

Name: _____

Period: _____

**One-Step Equations & Inequalities
Review**

Unit 4

Solve each equation. Show your work!

1. $y - 5 = -7$

3. $x + 10 = -6$

2. $-1 + x = 2$

4. $10 = v - 7$

Solve each equation. Show your work!

5. $-6x = -48$

7. $40 = -8x$

9. $2h = 8$

6. $\frac{m}{-3} = 9$

8. $-z = 55$

10. $3x = 27$

Students working on a homework assignment got the following answers. Check their solutions and circle whether they were correct or incorrect.

11. $12y = -24$

Solution: $y = -2$

Check:

Correct? YES or NO

12. $-5 = x + 1$

Solution: $x = -4$

Check:

Correct? YES or NO

13. $-3 + r = 5$

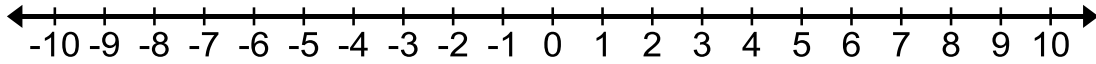
Solution: $r = 2$

Check:

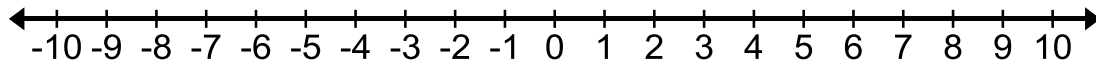
Correct? YES or NO

Graph the following inequalities and name 3 solutions.

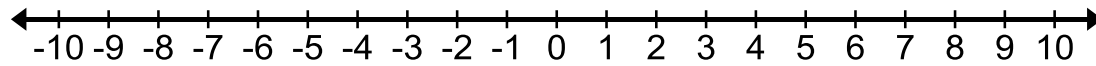
14. $m \leq -5$



15. $w > 0$



16. $8 \leq n$



Solve and graph each inequality.

17. $5 > y + 8$

20. $\frac{1}{4}x \leq 20$

18. $\frac{x}{-5} \leq 6$

21. $\frac{m}{-4} \geq -9$

19. $-5 \geq k - 7$

22. $-3x < -21$

Review:

23. Evaluate.

$$\frac{-6-8+2}{-4} =$$

24. Evaluate.

$$\frac{32 \div (-4 \cdot 2)}{-6+11} =$$

25. Evaluate.

$$|-3(4)+7|+5 =$$

26. Evaluate.

$$-7-13+|18-6| =$$

27. If $y = -15$ then $y - |36 + y| =$

28. If $r = 21$ then evaluate $|r - 36| + 27$.

29. Simplify.

$$17 + (2y - 3)(8)$$

30. Simplify.

$$3x - 6(-2x + 8)$$

31. Order the following from greatest to least.

$$7.3209, \frac{73}{10}, 0.7932, \frac{7}{9}$$

32. Order the following from least to greatest.

$$\frac{3}{7}, 0.0498, \frac{2}{5}, 0.482$$