

Algebra 1

Unit 3 Test Review

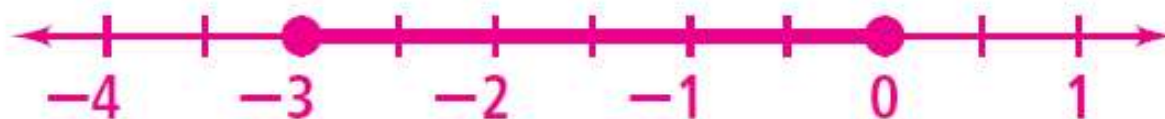
Solve each inequality. Graph the solution.

8. $|6q + 9| \leq 9$

10. $-9 < 3n < 18$

12. $-6b > 42$ or $4b > -4$

8. $|6q + 9| \leq 9$ $-3 \leq q \leq 0$



10. $-9 < 3n < 18$ $-3 < n < 6$



12. $-6b > 42$ or $4b > -4$ $b < -7$ or $b > -1$



Solve each inequality. Graph the solution.

14. $6y - 8 \leq 10$

16. $-\frac{3}{5}x < 24$

18. $2|d + 5| - 1 < 3$

14. $6y - 8 \leq 10$ $y \leq 3$



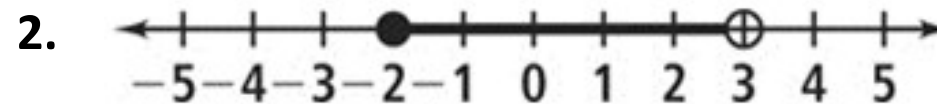
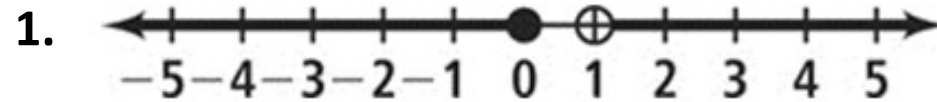
16. $-\frac{3}{5}x < 24$ $x > -40$



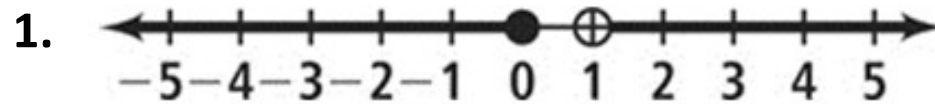
18. $2|d + 5| - 1 < 3$ $-7 < d < -3$



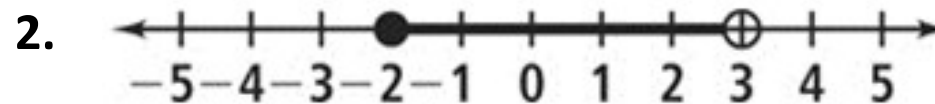
Write each inequality in interval notation



Write each inequality in interval notation



$(-\infty, 0] \text{ or } (1, \infty)$



$[-2, 3)$

Solve each equation.

14. $|3z - 6| = 9$

15. $|3k + 9| = 24$

16. $8|5 - m| = 64$

17. $|2x + 5| - 7 = 36$

14. $|3z - 6| = 9$

$z = -1, 5$

15. $|3k + 9| = 24$

$k = 5, -11$

16. $8|5 - m| = 64$

$m = -3, 13$

17. $|2x + 5| - 7 = 36$

$x = 19, -24$