

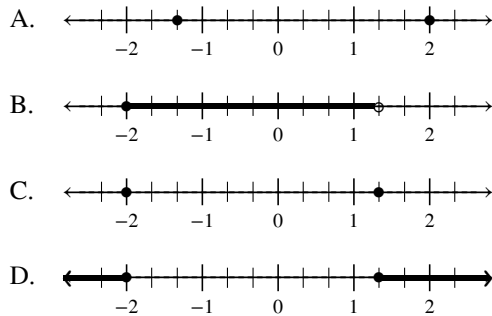
Keystone Review – Absolute Value & Inequalities

Name: _____

Date: _____

1. What is the solution set of the equation $|3 - 2x| = 5$?
- A. $\{-1, 4\}$ B. $\{1, -4\}$
 C. $\{-1\}$ D. $\{4\}$
2. Solve for the *negative* value of x : $|2x - 8| = 18$

3. Which is a graph of the solution set of $|3x + 1| = 5$?



4. The inequality $3x + 2 > x + 8$ is equivalent to
- A. $x > -\frac{3}{2}$ B. $x > \frac{3}{2}$
 C. $x > 3$ D. $x < 3$

5. Which is the greatest integer that makes the inequality $3 - 2x > 9$ a true statement?
- A. -2 B. 2 C. 5 D. -4

6. If x is an integer, which is the solution set of $-1 \leq x < 2$?
- A. $\{0, 1\}$ B. $\{-1, 0, 1, 2\}$
 C. $\{0, 1, 2\}$ D. $\{-1, 0, 1\}$

7. When x is an integer, what is the solution set of $5 \leq x < 8$?
- A. $\{5, 6, 7, 8\}$ B. $\{5, 6, 7\}$
 C. $\{6, 7, 8\}$ D. $\{6, 7\}$

8. The solution set of $|x - 2| < 3$ is
- A. $\{x \mid x > 5\}$
 B. $\{x \mid x < -1\}$
 C. $\{x \mid -1 < x < 5\}$
 D. $\{x \mid x < -1 \text{ or } x > 5\}$

9. The solution set of $|2x - 5| \leq 11$ is
- A. $\{x \mid -5 \leq x \leq 22\}$
 B. $\{x \mid x \leq 8\}$
 C. $\{x \mid -3 \leq x \leq 8\}$
 D. $\{x \mid x \leq -3 \vee x \geq 8\}$

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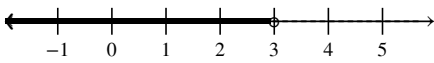
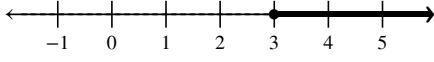
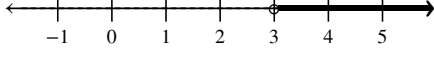
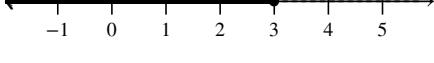
10. What is the solution set of $|4x + 8| > 16$?

- A. $\{x \mid -6 < x < 2\}$
- B. $\{x \mid -2 < x < 6\}$
- C. $\{x \mid x < -6 \text{ or } x > 2\}$
- D. $\{x \mid x < -2 \text{ or } x > 6\}$

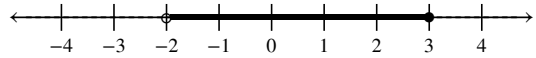
11. Which equation states that the temperature, t , in a room is less than 3° from 68° ?

- A. $|3 - t| < 68$
- B. $|3 + t| < 68$
- C. $|68 - t| < 3$
- D. $|68 + t| < 3$

12. Which graph represent the solution of the inequality $2x + 3 > 9$?

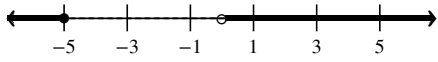
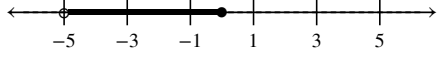
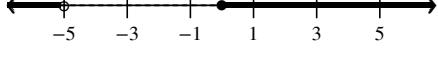
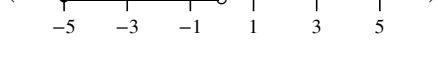
- A. 
- B. 
- C. 
- D. 

13. Which inequality is represented by the accompanying graph?

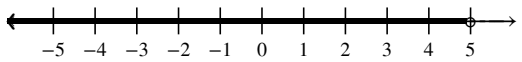
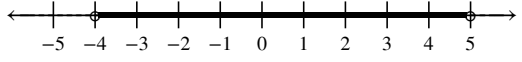
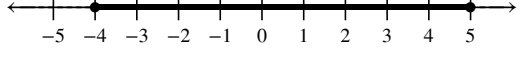
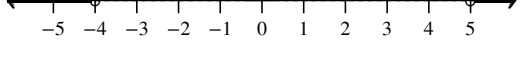


- A. $-2 < x \leq 3$
- B. $-2 \leq x \leq 3$
- C. $-2 \leq x < 3$
- D. $-2 < x < 3$

14. Which graph represents the open sentence $-5 \leq x < 0$?

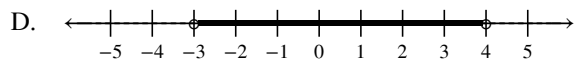
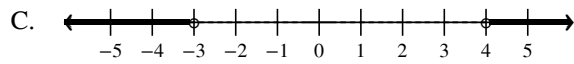
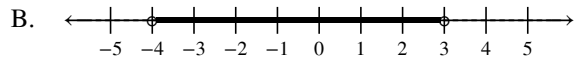
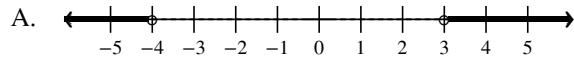
- A. 
- B. 
- C. 
- D. 

15. Which is the graph of the solution set of $|2x - 1| < 9$?

- A. 
- B. 
- C. 
- D. 

Keystone Review – Absolute Value & Inequalities

16. Which graph represents the solution set of $|2x + 1| > 7$?



- | | |
|---------|----|
| 1. | |
| Answer: | A |
| 2. | |
| Answer: | -5 |
| 3. | |
| Answer: | C |
| 4. | |
| Answer: | C |
| 5. | |
| Answer: | D |
| 6. | |
| Answer: | D |
| 7. | |
| Answer: | B |
| 8. | |
| Answer: | C |
| 9. | |
| Answer: | C |
| 10. | |
| Answer: | C |
| 11. | |
| Answer: | C |
| 12. | |
| Answer: | C |
| 13. | |
| Answer: | A |
| 14. | |
| Answer: | D |
| 15. | |
| Answer: | B |
| 16. | |
| Answer: | A |