Math on the Fly!

NAME: _____   DATE: _____

Graphing "AND" and "OR" Inequalities on Number Lines

Graph each inequality on a number line.

1. $x \leq 7$ or $x \geq 10$

2. $x > 2$ and $x < 6$

3. $-3 < x \leq 14$

4. $x \leq -9$ or $x > 5$
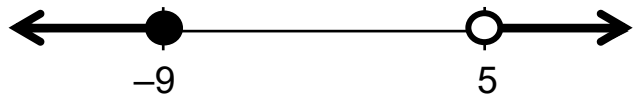
5. $x < -8$ or $x \geq 0$
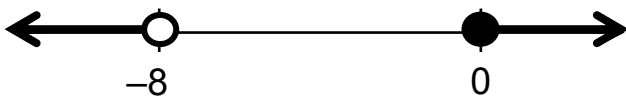
6. $x \geq -11$ and $x < -1$
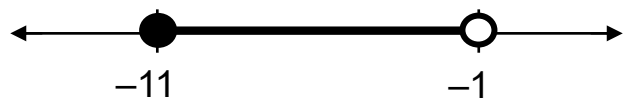
7. $x \geq 0$ and $x \leq 8$
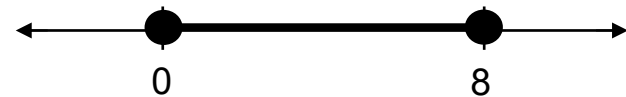
8. $x < -17$ or $x > -4$
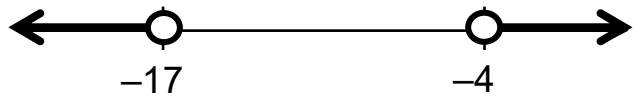
9. $x < -3$ or $x \geq 9$
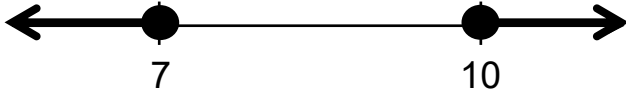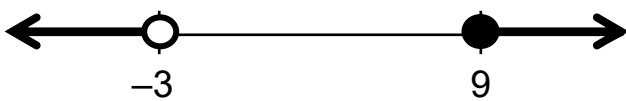
10. $-20 < x < -16$

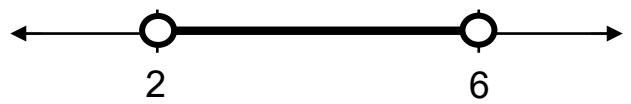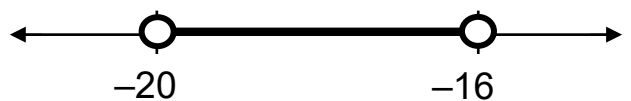**11.** $x > 1$ and $x < 13$

12. $x \leq -7$ or $x > 12$

13. $x < 0$ or $x > 2$

14. $x \geq -4$ and $x \leq -1$

SOLUTIONS

1. x ≤ 7 or x ≥ 10

7   10

2. x > 2 and x < 6

2   6

3. −3 < x ≤ 14
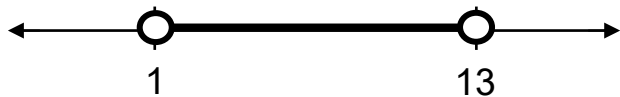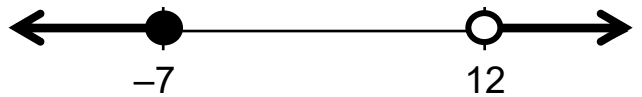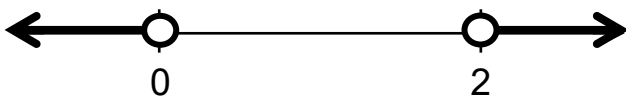
−3   14

4. x ≤ −9 or x > 5

−9   5

5. x < −8 or x ≥ 0

−8   0

6. x ≥ −11 and x < −1

−11   −1

7. x ≥ 0 and x ≤ 8

0   8

8. x < −17 or x > −4

−17   −4

9. x < −3 or x ≥ 9

−3   9

10. −20 < x < −16

−20   −16

11. x > 1 and x < 13

1   13

12. x ≤ −7 or x > 12

−7   12

13. x < 0 or x > 2

0   2

14. x ≥ −4 and x ≤ −1

−4   −1