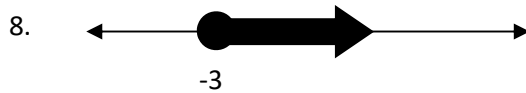


Express each given group of numbers in set notation and interval notation:

1. All numbers larger than 3.
2. All numbers less than or equal to -4.
3. All numbers from -6 to 9 inclusive.
4. All numbers from 2 to 25 exclusive.
5. All numbers from -5 inclusive to 10 exclusive.



Express each set notation statement in interval notation or vice versa (if possible).

9. $\{x|x < 8, x \in \mathbb{R}\}$
10. $\{x|-2 < x \leq 15, x \in \mathbb{R}\}$
11. $\{x|x \geq 10, x \in \mathbb{R}\}$
12. $\{x|0 \leq x < 8, x \in \mathbb{W}\}$
13. $(-\infty, 5]$
14. $[-20, 10)$
15. $(-1, \infty)$
16. $(-\infty, \infty)$

KEY

1. $\{x|x > 3, x \in \mathbb{R}\}; (3, \infty)$
2. $\{x|x \leq -4, x \in \mathbb{R}\}; (-\infty, -4]$
3. $\{x|-6 \leq x \leq 9, x \in \mathbb{R}\}; [-6, 9]$
4. $\{x|2 < x < 25, x \in \mathbb{R}\}; (2, 25)$
5. $\{x|-5 \leq x < 10, x \in \mathbb{R}\}; [-5, 10)$
6. $\{x|x < 5, x \in \mathbb{R}\}; (-\infty, 5)$
7. $\{x|-8 < x \leq 13, x \in \mathbb{R}\}; (-8, 13]$
8. $\{x|x \geq -3, x \in \mathbb{R}\}; [-3, \infty)$
9. $(-\infty, 8)$
10. $(-2, 15]$
11. $[10, \infty)$
12. Interval notation not possible (not $\in \mathbb{R}$)
13. $\{x|x \leq 5, x \in \mathbb{R}\}$
14. $\{x|-20 \leq x < 10, x \in \mathbb{R}\}$
15. $\{x|x > -1, x \in \mathbb{R}\}$
16. $\{x|x \in \mathbb{R}\}$