11. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$3x - 3 > 4x + 4$$

A. (a, ∞), where $a \in [-10, 1]$

B. $(-\infty, a)$, where $a \in [6, 8]$

C. $(-\infty, a)$, where $a \in [-8, -1]$

D. (a, ∞), where $a \in [6, 8]$

E. None of the above.

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12. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$-8 + 4x > 6x \quad \text{or} \quad -3 + 8x < 11x$$

A. $(-\infty, a] \cup [b, \infty)$, where $a \in [0, 6]$ and $b \in [2, 5]$

B. $(-\infty, a] \cup [b, \infty)$, where $a \in [-8, -3]$ and $b \in [-5, 2]$

C. $(-\infty, a) \cup (b, \infty)$, where $a \in [-9, -1]$ and $b \in [-3, 3]$

D. $(-\infty, a) \cup (b, \infty)$, where $a \in [-2, 2]$ and $b \in [0, 5]$

E. $(-\infty, \infty)$

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13. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$\frac{9}{2} + \frac{4}{7}x < \frac{5}{4}x - \frac{10}{5}$$

A. $(-\infty, a)$, where $a \in [-14, -8]$

B. $(-\infty, a)$, where $a \in [6, 11]$

C. (a, ∞), where $a \in [7, 14]$

D. (a, ∞), where $a \in [-13, -7]$

E. None of the above.

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14. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$-3 + 8x < \frac{76x + 4}{9} \leq -5 + 7x$$

A. $[a, b)$, where $a \in [-12, -3]$ and $b \in [-7, 2]$

B. $(-\infty, a) \cup [b, \infty)$, where $a \in [-12, -6]$ and $b \in [-5, 0]$

C. $(a, b]$, where $a \in [-9, -6]$ and $b \in [-6, 0]$

D. $(-\infty, a] \cup (b, \infty)$, where $a \in [-12, -2]$ and $b \in [-10, -3]$

E. None of the above.

15. Using an interval or intervals, describe all the x-values within or including a distance of the given values.

More than 8 units from the number 7.

A. $(1, 15)$

B. $[1, 15]$

C. $(-\infty, 1) \cup (15, \infty)$

D. $(-\infty, 1] \cup [15, \infty)$

E. None of the above