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

No more than 4 units from the number -2.

A. $[2, 6]$

B. $[-6, 2]$

C. $(-6, 2)$

D. $(2, 6)$

---

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

$$-4x + 3 \leq 10x + 6$$

$a = \boxed{}$

A. $(-\infty, a]$, where $a \in [-0.52, 0.11]$

B. $[a, \infty)$, where $a \in [-0.22, 0.08]$

C. $[a, \infty)$, where $a \in [0.2, 0.54]$

D. $(-\infty, a]$, where $a \in [-0, 0.38]$

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

---

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

$$-\frac{10x}{7} - 1 > -\frac{4x}{3} - \frac{1}{2}$$

$a = \boxed{}$

A. $(-\infty, a)$, where $a \in [3, 7]$

B. (a, ∞), where $a \in [3, 8]$

C. $(-\infty, a)$, where $a \in [-8, -3]$

D. (a, ∞), where $a \in [-7, -1]$

E. There is no solution to the inequality.

---

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

$$4 + 7x > 10x \quad \text{or} \quad 7 + 4x < 7x$$

$a = \square \qquad b = \square$

A. $(-\infty, a] \cup [b, \infty)$, where $a \in [-1, 4]$ and $b \in [0, 6]$

B. $(-\infty, a] \cup [b, \infty)$, where $a \in [-6, -1]$ and $b \in [-6, 0]$

C. $(-\infty, a) \cup (b, \infty)$, where $a \in [-1.1, 2.4]$ and $b \in [0.8, 2.9]$

D. $(-\infty, a) \cup (b, \infty)$, where $a \in [-2.5, -1.6]$ and $b \in [-3, -1.1]$

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

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

$$6 + 9x < \frac{38x - 4}{4} \leq 8 + 9x$$

$a = \square \qquad b = \square$

A. $[a, b)$, where $a \in [12, 17]$ and $b \in [13, 22]$

B. $[a, b)$, where $a \in [-20, -13]$ and $b \in [-16, -12]$

C. $(a, b]$, where $a \in [13, 15]$ and $b \in [17, 19]$

D. $(a, b]$, where $a \in [-23, -14]$ and $b \in [-17, -10]$

E. There is no solution to the inequality.
