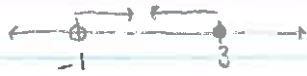


Algebra I (Lesson 2.5)

3. $-3 < 3x \leq 9$

$-3 < 3x \quad 3x \leq 9$

$-1 < x \quad x \leq 3$



$-1 < x \leq 3$

1. TRUE TRUE TRUE

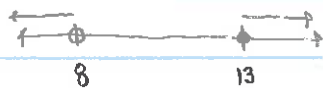
TRUE FALSE FALSE

FALSE TRUE FALSE

FALSE FALSE FALSE

5. $x-5 < 3$ OR $x-5 \geq 8$

$x < 8 \quad x \geq 13$



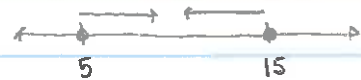
$x < 8$ OR $x \geq 13$

4. $0 \leq 2x-10 \leq 20$

$0 \leq 2x-10 \quad 2x-10 \leq 20$

$10 \leq 2x \quad 2x \leq 30$

$5 \leq x \quad x \leq 15$



$5 \leq x \leq 15$

6. $1 \leq x+7 < 7$

$1 \leq x+7 \quad x+7 < 7$

$-6 \leq x \quad x < 0$



$-6 \leq x < 0$

9. $-6 < \frac{x-12}{4} < -2$

$-6 < \frac{x-12}{4} \quad \frac{x-12}{4} < -2$

$-24 < x-12 \quad x-12 < -8$

$-12 < x \quad x < 4$



$-12 < x < 4$

11. $x \leq -2$ OR $x \geq 7$

13. $x < 9$ OR $x > 11$

15. $2 < x < 10$

17.

$$70 \leq t \leq 95$$

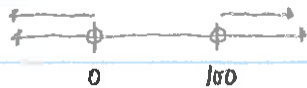


19. $82.4 \leq x \leq 659.2$



21.

$$t < 0 \text{ OR } t > 100$$



24. (A) The total cost must be within that range.

(B) $200 \leq 225 + 80n \leq 550$

$$200 \leq 225 + 80n \quad 225 + 80n \leq 550$$

$$-25 \leq 80n \quad 80n \leq 325$$

$$-0.3125 \leq n \quad n \leq 4.0625$$

n cannot be negative

(C) $225 + 80(w) = 705$

Jenna has \$200 and she raised \$350 in pre-orders

$$750 - 200 - 350 = 155$$

She needs to raise \$155 more.