

Name: \_\_\_\_\_

Due Date: \_\_\_\_\_

Teacher: \_\_\_\_\_

Parent Sign: \_\_\_\_\_

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Answers

1.  $x < 4$

2.  $x > 4$

3.  $-2x + 5 \geq 13 \rightarrow -2x \geq 8 \rightarrow x \leq -4$

4.  $x \leq 4$

5.  $x < 5$

6.  $x > 3$

7.  $-3x - 3 \leq -12 \rightarrow -3x \leq -9 \rightarrow x \geq 3$

8.  $(\frac{1}{2})x + 3 \leq 7 \rightarrow (\frac{1}{2})x \leq 4 \rightarrow x \leq 8$

9.  $x \geq 3$

10.  $x < 3$

11.  $x \leq 2$

12.  $x \geq 7$

13.  $-4x + 9 < 1 \rightarrow -4x < -8 \rightarrow x > 2$

14.  $x > 4$

15.  $x \leq 4$

16.  $x \geq 3$

17.  $x < 4$

18.  $x \geq 3$

19.  $-6x + 12 \leq 0 \rightarrow -6x \leq -12 \rightarrow x \geq 2$

20.  $(\frac{x}{3}) + 4 > 8 \rightarrow \frac{x}{3} > 4 \rightarrow x > 12$

21.  $3x + 5 \leq 20 \rightarrow 3x \leq 15 \rightarrow x \leq 5$

22.  $4x + 6 < 22 \rightarrow 4x < 16 \rightarrow x < 4$

23.  $5x + 2 \leq 27 \rightarrow 5x \leq 25 \rightarrow x \leq 5$

24.  $6x + 3 \leq 45 \rightarrow 6x \leq 42 \rightarrow x \leq 7$

25.  $3x + 7 < 40 \rightarrow 3x < 33 \rightarrow x < 11$

26.  $2x + 1 \leq 15 \rightarrow 2x \leq 14 \rightarrow x \leq 7$

27.  $2x + 4 > 18 \rightarrow 2x > 14 \rightarrow x > 7$

28.  $8x - 7 \leq 25 \rightarrow 8x \leq 32 \rightarrow x \leq 4$

29.  $4x + 10 < 50 \rightarrow 4x < 40 \rightarrow x < 10$

30.  $9x + 2 \leq 83 \rightarrow 9x \leq 81 \rightarrow x \leq 9$

31.  $3(x + 4) \leq 30 \rightarrow 3x + 12 \leq 30 \rightarrow 3x \leq 18 \rightarrow x \leq 6$



# Math Worksheet for 7th Grade

## Two-step inequalities

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32.  $3x + 2 = 20 \rightarrow 3x = 18 \rightarrow x = 6$

33.  $7x + 7 < 49 \rightarrow 7x < 42 \rightarrow x < 6$

34.  $200x + 100 = 1000 \rightarrow 200x = 900 \rightarrow x = 4.5$

35.  $4x - 5 = 27 \rightarrow 4x = 32 \rightarrow x = 8$

36.  $8x + 3 = 35 \rightarrow 8x = 32 \rightarrow x = 4$

37.  $50x + 20 > 300 \rightarrow 50x > 280 \rightarrow x > 5.6$

38.  $12x + 2 = 50 \rightarrow 12x = 48 \rightarrow x = 4$

39.  $5x + 100 < 300 \rightarrow 5x < 200 \rightarrow x < 40$

40.  $3x + 2 = 20 \rightarrow 3x = 18 \rightarrow x = 6$

41.  $3x + 10 < 50 \rightarrow 3x < 40 \rightarrow x < \frac{40}{3} \text{ ( } 13.33\text{)}$

42.  $15x + 5 = 80 \rightarrow 15x = 75 \rightarrow x = 5$

43.  $4x + 200 = 800 \rightarrow 4x = 600 \rightarrow x = 150$

44.  $40x + 60 = 300 \rightarrow 40x = 240 \rightarrow x = 6$

45.  $18x + 10 = 120 \rightarrow 18x = 110 \rightarrow x = \frac{110}{18} = \frac{55}{9} \text{ ( } 6.11\text{)}$

46.  $12x + 30 < 150 \rightarrow 12x < 120 \rightarrow x < 10$

47.  $3x + 5 = 50 \rightarrow 3x = 45 \rightarrow x = 15$

48.  $25x + 40 = 190 \rightarrow 25x = 150 \rightarrow x = 6$

49.  $0.5x + 10 = 60 \rightarrow 0.5x = 50 \rightarrow x = 100$

50.  $12x + 4 = 100 \rightarrow 12x = 96 \rightarrow x = 8$