Lesson 7

Inequalities

Answers

1) x > 7

2) 3y <= 12, y <= 4

3) m < -4   (divided by -2, flipped sign)

4) 4n >= 16, n >= 4

5) -5a < -20, a > 4   (divided by -5, flipped sign)

6) 2x - 8 <= 6, 2x <= 14, x <= 7

7) 2x + 8 > 20, 2x > 12, x > 6

8) x < 6

9) y <= -6   (divided by -4, flipped sign)

10) 6n > 30, n > 5

11) 6x - 2 <= 16, 6x <= 18, x <= 3

12) -3m - 12 > 6, -3m > 18, m < -6   (flipped sign)

13) 2a - 7 < 9, 2a < 16, a < 8

14) 2x + 11 >= 23, 2x >= 12, x >= 6

15) -6y + 10 < 14, -6y < 4, y > -2/3   (flipped sign)

16) -8 <= 2x + 4, -12 <= 2x, x >= -6

17) -4n > 12, n < -3   (divided by -4, flipped sign)

18) 6x + 3 >= 5x + 8, x >= 5

19) 12 + 18 + 20 + q >= 75, 50 + q >= 75, q >= 25

20) -2x - 4x > -9 - 9, -6x > -18, x < 3   (flipped sign)