1. Graph x > -3.

2. Solve -5m -3 = -23

3. Solve 3x – 8(x + 2) = -6

4. Determine if 2, -2, -4, and/or 0 are solutions to 3x -4 > -10.

5. Solve 6 - => 3

6. Solve -12d < 48

7. Solve. > -12.

8. Write an inequality for each situation.

at least 50

at most 50

greater than 50

less than 50

no greater than 50

no less than 50

maximum of 50

minimum of 50

not equal to 50

9. Solve. 4x + 8 = 4x + 15 + x

Solve and graph.

10. x + 12 < 10

11. y -13 < 14

12. 4x > -8

13. -3x – (-x + 2) > -6

Solve.

14. 2z – 4 = 2(2z -2) – 2z

15. 5d + 5 = 10d – 5 + 5d

16. Bob has three sisters. They each buy a soft drink for $2 each and then eat some cookies. The cookies cost $2.50 each. Their total bill was $33.50. How many cookies did Bob’s sisters eat?

17. Bob goes to the store with $40. He buys his mother a vacuum cleaner for $15 and wants to buy equally priced gifts for his three sisters. What is the most that Bob can spend on each sister?

18. Bob works as a hair sweeper at a barber shop and makes $25.50 each week. He also works as a shusher at the local library and makes $8 per hour. Because he just spend $73.50 on his mother and sisters, he needs to make at least that much at his two jobs. How many hours does Bob need to work as a shusher at the library?

19. A movie theater can seat 200 people. For one show, 85 people are in the theater already. Write and solve an inequality to find how many people can attend this show.

20. The difference of a number divided by 7 and 6 is at least -2. What could the number be?

21. Kate sells bracelets at a craft fair and earns $9.60 per bracelet. She pays a rental fee of $35.20 for her booth. She wants to earn at least $200. Write a and solve an inequality to find the number of bracelets

Kate needs to sell.

22. Julia has $80. She wants to purchase a nail paint set for $16 and spends the rest on earrings. Each pair of earrings costs $8. Write and solve an inequality for the number of pairs of earrings she can purchase.