

Name: _____ Period: _____

2-Step Equation and Inequalities Review Worksheet (You may want to work these on a separate piece of paper!)

Short Answer

1. Solve $2p + 9 = 27$. Show all steps!
2. Solve $4t + 10 = 35$. Show all steps!
3. Solve $8p - 6 = 26$. Show all steps!
4. Solve $\frac{d}{3} + 5 = 26$. Show all steps!
5. Solve $\frac{n}{3} + 2 = 22$. Show all steps!
6. Solve $\frac{k}{7} - 13 = 34$. Show all steps!
7. Write an inequality for the situation.
There are at least 38 women in the house.
8. Write an inequality for the situation.
There are less than 87 women in the house.
9. Write an inequality for the situation.
There are no more than 62 women in the school.
10. Graph the inequality $w \geq -6.5$.
11. Solve $m - 3 > -5$. Then graph the solution set on a number line.
12. Solve $d + 7 > 15$. Then graph the solution set on a number line.
13. Solve $d - 5 < -4$. Then graph the solution set on a number line.
14. Solve $n + 2 \leq -16$. Then graph the solution set on a number line.
15. Solve $5y > -45$.
16. Solve $-8w > 32$.
17. Solve $2z > -25$.
18. Solve $\frac{y}{3} > 4$.
19. Solve $\frac{f}{-13} < -7$.
20. Solve $\frac{b}{11} \geq 8$.

Multiple Choice

Identify the choice that best completes the statement or answers the question.

21. Manuel just bought a new television for \$629.00. He made a down payment of \$57.00 and will pay monthly payments of \$26.00 until it is paid off. How many months will Manuel be paying? (Assume that Manuel pays no interest.)
 - a. 21 months
 - b. 22 months
 - c. 27 months
 - d. 25 months
22. A store is selling a couch for \$623.00 on a 24-month payment plan. If a down payment of \$152.00 is given, and no interest is charged, how much will a customer have to pay each month? Round your answer to the nearest cent.
 - a. \$25.96
 - b. \$20.00
 - c. \$19.63
 - d. \$32.29

23. Write an inequality for the situation.
At most 37 papers are on the table.
- number of papers < 37
 - number of papers ≥ 37
 - number of papers > 37
 - number of papers ≤ 37
24. Wednesday's low temperature in Indianapolis was 25°F . The same day in Houston, the low temperature was above 56°F . at least how many degrees warmer was the low temperature in Houston than the low in Indianapolis?
- at least 81°F warmer
 - at most 81°F warmer
 - at least 31°F warmer
 - at most 31°F warmer
25. Antonio has read at least 10 more books than Benji. If Benji has read 27 books, at least how many books has Antonio read?
- at least 37 books
 - at most 37 books
 - at least 17 books
 - at most 17 books
26. The 19 members of a football team are trying to raise at least \$1266.00 to cover the traveling cost for a holiday tournament. If they have already raised \$451.00, at least how much should each member still raise, on average, to meet the goal?
- at least \$815.00
 - at least \$90.37
 - at least \$15,485.00
 - at least \$42.90
27. Larry has \$389.00. A DVD player costs \$97.00, and he can purchase used movies for \$11.55 each. What is the greatest number of movies Larry can buy if he also buys a DVD player?
- at most 26
 - at most 34
 - at most 25
 - at most 43