

CHAPTER 2

NAME _____

TEST FORM A

CLASS _____ SCORE _____ GRADE _____


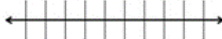
Solve.

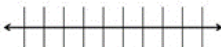
- | | |
|--------------------------------------|---|
| 1. $x + 8 = 15$ | 2. $t - 8 = 16$ |
| 3. $4x = -24$ | 4. $-\frac{3}{4}x = -12$ |
| 5. $4t + 9 = 5t - 6$ | 6. $\frac{1}{2}x - \frac{1}{6} = \frac{5}{6}$ |
| 7. $14 - y = 5$ | 8. $-\frac{2}{3} + x = -\frac{5}{8}$ |
| 9. $3(x + 4) = 36$ | 10. $-3x - 3(x + 5) = 14$ |
| 11. $0.2p - 1.8 = 2.3p - 4.5 - 1.8p$ | |
| 12. $4(x + 5) - 9 = 2(2x + 3) + 1$ | |
| 13. $8y + 6 = -11y - 2 + 19y + 8$ | |

Solve. Write set notation for the answers.

- | | |
|--------------------|----------------------------|
| 14. $x + 5 \leq 8$ | 15. $8x + 2 > 9x - 6$ |
| 16. $4x \geq 24$ | 17. $-3y \leq 15$ |
| 18. $-7y \geq -35$ | 19. $-4x \geq \frac{3}{8}$ |
| 20. $3 - 7x > 17$ | 21. $3 - 2x \leq 21 + 4x$ |

Graph on the number line.

- | | |
|---|---|
| 22. $y \leq 1$ | 23. $4x - 3 > x + 6$ |
|  |  |

24. $-3 \leq x \leq 0$
- 

Solve.

25. What number is 12% of 75?
 26. 32.2 is what percent of 92?
 27. 24 is 2% of what number?

ANSWERS

1. _____
2. _____
3. _____
4. _____
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19. _____
20. _____
21. _____
22. See graph.
23. See graph.
24. See graph.
25. _____
26. _____
27. _____

TEST FORM A

ANSWERS	
	Solve.
28. _____	28. The population increased from 24,000 to 27,000 over a nine-year period. What was the percent increase?
29. _____	29. The perimeter of a rectangular flower bed is 56 ft. The length is 4 ft greater than the width. Find the width and the length.
30. _____	30. Forty-eight percent of the students were girls. There were 12 girls. How many students were there?
31. _____	31. The sum of the page numbers on the facing pages of a book is 257. What are the page numbers?
32. _____	32. Money is invested in a savings account with 3% simple interest. After 1 year, there is \$1905.50 in the account. How much was originally invested?
33. _____	33. A 60-in. pipe is cut into two pieces. One piece is 30 in. more than the other. Find the length of each piece.
34. _____	34. The width of a rectangle is 48 yd. Find all possible lengths so that the perimeter of the rectangle will be at least 200 yd.
35. _____	35. Greta budgeted an average of \$70 a month for clothing. For the first three months of the year she spent \$150, \$50, and \$20. How much can she spend in the fourth month without exceeding her average budget?
36. _____	
37. _____	36. Solve $F = ma$ for a . 37. Solve $y = 5x - n$ for x .
38. _____	38. The number of tomato plants Jeff planted went from 4 last year to 12 this year. Find the percent increase. A. 20% B. $66\frac{2}{3}\%$ C. 150% D. 200%
39. _____	
40. _____	39. Solve $k = \frac{5}{x-2}$ for x . 40. Solve: $3 x + 7 = 16$.