

Chapter 2
Form A

For problems 1 – 6, solve the equation.

1. $-3 = -5y + 12$ 1. _____

2. $7x - 5 = 3x - 4 + x + 5$ 2. _____

3. $4 - \frac{2x}{3} = -\frac{1}{6} + x$ 3. _____

4. $5(y + 3) = -2(y - 4)$ 4. _____

5. $-14(3 - 2x) = 7x + 3(7x - 12)$ 5. _____

6. $2z - 5(4 - z) = 3(2z - 6) + z - 2$ 6. _____

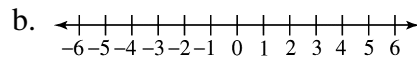
For problems 7 – 10, solve each inequality.

a. Express the solution set in set-builder notation.

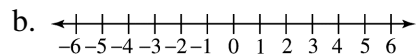
b. Graph the set on a number line.

If the inequality has no solution or is true for all real numbers, so state.

7. $-2x - 6 > 0$ 7a. _____



8. $2x + 8 \leq -16 + 8x$ 8a. _____

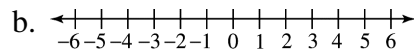


Name _____

Date _____

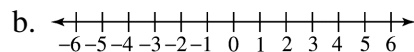
9. $18x - 6(3x - 4) > 0$

9a. _____



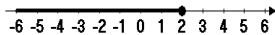
10. $7x - 6(3 - 5x) > x + 18$

10a. _____



11. Use set builder notation to describe the following graph.

11. _____



12. Solve $P = a + b + c$ for c .

12. _____

13. Solve $A = \frac{1}{2}bh$ for b .

13. _____

14. What is 1.5% of 750?

14. _____

15. 1250 is what percent of 800?

15. _____

16. Find the circumference of a circle with a diameter of 8 cm. Round the answer to the nearest whole number.

16. _____

17. The sum of 2 consecutive odd integers is 1344. Find the two integers.

17. _____

18. The quotient of a number and 6 decreased by 5 is 4. Find the number.

18. _____

Name _____

Date _____

19. A rectangular yard is surrounded by a fence that is 4 feet longer than it is wide. If the perimeter of the fence is 424 feet, what are the dimensions of the yard it encloses?

19. _____

20. Jason wants to host a catered dinner for his friends. If the caterer charges a set up fee of 40 dollars and 15 dollars per person, how many people, including Jason, can attend the dinner and keep the cost at \$145 or less?

20. _____