

Practice Sheet #8

Name _____

Solve. Show your work.

<p>1. Evaluate the expression.</p> $3 - 2(5 + 1) - 1$	<p>6. Solve for y.</p> $y - 8 > 24$
<p>2. Evaluate the expression.</p> $2\left(\frac{1}{3} \cdot 12 + 15 - 6\right)$	<p>7. Substitute and solve the equation when $a = (-5)$, $b = 9$, and $c = (-3)$.</p> $a - (b \cdot c) =$
<p>3. Solve the following proportion.</p> $\frac{8}{18} = \frac{28}{x}$	<p>8. $26.9 + 4.78 + 47.019 =$</p>
<p>4. Let $y = (-4)$. What is x?</p> $y = 2x - 12$	<p>9. Solve for n.</p> $126 - n = 63$

5. There are 24 students in Mr. Petermann's class. 16 of them are girls. What is the ratio of girls to boys?

10. Solve for x .

$$7x + 8 = 43$$

11. Mark sold some tickets. Wayne sold 4 times as many tickets as Mark. Together they sold 40 tickets. How many tickets did Mark sell?

14. What is x if twice x increased by 26 is 40?

12. Solve for m .

$$13 - m = (-17)$$

15. Solve the inequality below.

$$-3x > 39$$

13. Solve the inequality below.

$$-x - 3 < (-20)$$

16. Solve the inequality below.

$$-20 > -3x + 1$$

17. During Safety Week, Gina and Ted made 18 posters in 2 hours. Working at that rate, how many posters can they expect to finish after three hours?

18. Ed invested in the stock market when he bought 50 shares in Ajax Can Company for \$23.75 a share. After three months, each share had a value of \$27.50. How much had his total investment increased?

19. Kari told her mom that she worked 15 hours at her weekend job and earned \$72.00. At this rate, how much did Kari earn per hour?

20. Anthony was building a tower of blocks. The bottom block was yellow, the next was blue, then red, and then green. He kept repeating the pattern of colors. What color was the twenty-ninth block?

21. Ahmed is trying to visit all 50 states. In 1995, he visited 2 states; in 1996, he visited 3 more states; in 1997, he visited 4 more states; and in 1998, he visited 5 more states. If he continues this pattern, in what year will he visit the 50th state?

22. At Stillwater High School, 50 students are taking German. This number has been increasing at a rate of 2 students per year. The number of students taking French is 118 and has been decreasing at a rate of 4 students per year. When will the number of students taking German be greater than the number taking French?

23. Aba has scored 96%, 92%, 98%, and 87% on her first four tests in Ms. Dillon's math class. Aba wants an A and Ms. Dillon only gives A's to students with 91% averages or higher. What does Aba need to score on the fifth test in order to get an A?

24. Lenny wants to earn an 86% grade point average. So far, his test scores have been 82%, 92%, 79%, and 84%. What is the lowest possible score that Lenny must earn on his next test to keep an 86% test average?

25. During one week of cold and flu season, a doctor saw 63 patients on Monday, 78 patients on Tuesday, 59 patients on Wednesday, and 64 on Thursday. What is the average number of people who went to see the doctor each day?