

## Practice Sheet #5

Name \_\_\_\_\_

Solve. Show your work.

1. $22 - 15 \div (9 - 2^3) =$	6. The value of $\sqrt{12}$ is between which two integers?
2. $2x - 3 = (-13)$	7. What is the probability that two coins flipped at the same time will both land on heads?
3. $\frac{16-4}{2} + 2 =$	8. The scale of a map is 1 cm = 0.5 km. The distance between two towns is 10 km. What distance would this be on the map?
4. $6(3k + 5) = 39$	9. Evaluate the following expression if $w = 2$ , $v = 8$ , and $t = 4$ . $4w + (v - 5)t$
5. $[13 - (3 + 2 \cdot 4)]^2 =$	10. $y = (-13)$ . Solve for $x$ . $-2x - 7 = y$

11. $4(3t - 2) = 88$	14. $-5.1z = (-11.73)$
12. $2.3 = \frac{y}{1.4}$	15. $\frac{1}{2} + \frac{1}{6} + x = 1$
13. $\frac{9 + 3 \times 7}{3^2 + (5 - 2^2)}$	16. $8\frac{5}{8} + x = 12\frac{1}{6}$

17. Julie checked out 24 books from the library. This is 6 more than twice the number of books she checked out on Saturday. How many books did Julie check out on Saturday?

18. Eileen baked 15 dozen cookies for a bake sale. She used a total of 10 cups of sugar. How much sugar would it take to make 30 cookies?

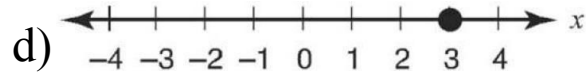
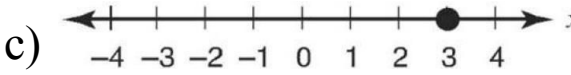
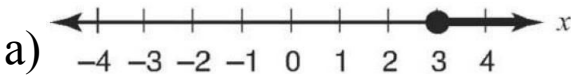
19. Josh hiked 2.5 km on Saturday. Miguel hiked 2.75 km on Saturday. Anna hiked 2.375 km on Saturday. Who hiked the shortest distance? Who hiked the farthest?

20. A copy machine salesperson recorded the number of machines sold each month this year. The results are shown in the table below. What is the median number of copy machines sold this year?

<b>Month</b>	<b>Number Sold</b>
January	14
February	15
March	25
April	22
May	30
June	31
July	29
August	34
September	34
October	18
November	33
December	19

21. Which of the following is the **correct** graph for the inequality below?

$$x \geq 3$$



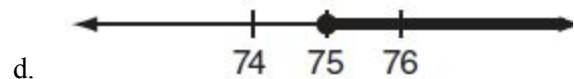
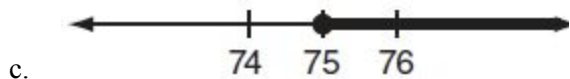
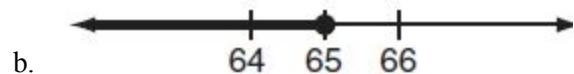
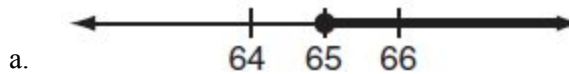
22. The data below are the results of a test given in Mrs. Wilson's music class.

- The mean score is 74.
- The median score is 81.
- The mode is 79.
- The highest and lowest scores are 95 and 45.

Based on the data, which statement **COULD** be true?

- (a) No one received a score of 81.  
 (b) The most common score is 74.  
 (c) No one received a score of 79.  
 (d) The range of the scores is 40 points.

23. José is going to deposit \$10 in his savings account today. He has not kept track of how much money is in the account, but he knows that there must be at least \$65. Which graph correctly shows the possible amount of money,  $m$ , in José's account after his deposit today?



24. Aleesia just had her mountain bike repaired. The total bill for the repairs was \$105.

The cost for the parts was \$45. The cost for the labor was \$15 an hour. She wants to figure out how many hours it took to do the repair work. Write an equation to represent the situation to help Aleesia determine the number of hours ( $h$ ) the repairs took?

25. Using the inequality  $2x > 8$ , which of these graphs models this inequality?

