CHAPTER 7 PRACTICE TEST

Write the word sentence as an equation.

1. The sum of a number n and 15 is 9.	2. The product of a number r and 7 is 48.
3. The quotient of a number x and 5 is 17.	4. 9 is 3 less than a number n.

Solve the equation.

5. $s - 3 = 19$	6. $17 = 7 + m$	7. $5z = 60$
8. $\frac{a}{6.2} = 7.3$	9. $\frac{6}{7}r = 46$	10. $40 = \frac{m}{2}$

Tell whether the ordered pair is a solution of the equation.

11. $y = x + 11$; (4, 13)	12. $y = 6x$; (8, 48)

Tell whether the ordered pair is a solution of the inequality.

13. $2x \leq 10; x = 5$	14. $m - 4 > 8; m = 10$

Graph the inequality on a number line.

15. $m \leq -2$	16. $w > 6$

18. Solve the equation. $22 - 7 = f + 6$

Solve the inequality. Graph the solution

18. $r - 7 \leq 2$	19. $\frac{w}{3} < 8$
20. $2x > 24$	21. $35 \geq \frac{5}{7}n$

22. A mobile phone plan has a base fee of $50 per month. The monthly cost increases by $10 for every gigabyte of data used. Write and graph an equation in two variables that represents the total monthly cost of the plan from 0 to 10 gigabytes. Need to have an equation, table, and graph. (Worth 5 points.)

EQUATION:

G(Gigabyte)	C(Cost)