

Name _____ Class _____ Score _____

UNIT 6 STUDY GUIDE

Solve each equation. Show your work.

1) $m - 16 = -4$

2) $k + 31 = 17$

Find the solution for question #3 and #4. Show your work. Check your answer.

3) Jamar earned \$2,500 from his summer job at the grocery store. This is \$350 more than twice what his friend Todd earned. How much did Todd earn from his summer job?

4) The perimeter of a rectangle is 48 centimeters. If the length of one of the sides is 16 centimeters, what is the width of the rectangle?

Solve each equation. Show your work.

5) $9x = 72$

6) $-39.75 = 7.5m$

7) $4.8x + 7.48 = -5$

8) $\frac{8}{11}x = -\frac{4}{11}$

9) $-0.5(x - 4.2) = 6.4$

10) $-5 + 18a = -77$

11.) $12 = 3.1y - 59.3$

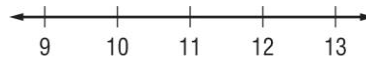
12) $\frac{x}{5} - 9 = -4$

Solve each inequality. Show your work. Graph the solution on a number line.

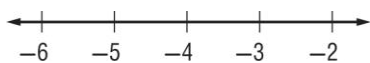
13) $x + 3 > 13$



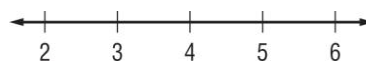
14) $n - 8 \leq 4$



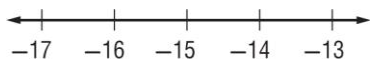
15) $9a \geq -36$



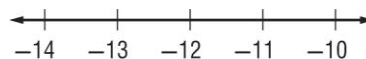
16) $-6m < -24$



17) $\frac{w}{-2} < 8$



18) $\frac{b}{4} + 6 \leq 3$



Find the solution for question #19 and #20. Show your work. Check your answer.

19) The length of each side of a regular pentagon is increased by 8 inches, so the perimeter is now 65 inches. What is the original length of each side of the regular pentagon?

20) $-7 = 1 + \frac{2}{3}n$