

Name K.Y

Chapter 6 Test Review

Solve each inequality. Then GRAPH the solution set.

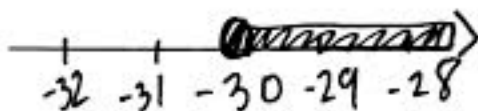
19. $x + 10 < 5$
 $\quad -10 \quad -10$

$$\boxed{x < -5}$$



20. $\frac{y}{6} \leq 5 \cdot -6$

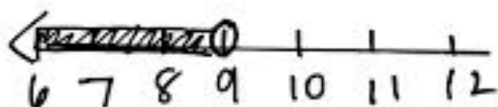
$$\boxed{y \geq -30}$$



21. $-\frac{2}{3}b + 5 > -1$
 $\quad -5 \quad -5$

$$-\frac{3}{2} \cdot \frac{2}{3}b > -\frac{3}{2} \cdot 6 \cdot -\frac{3}{2}$$

$$\boxed{b < 9}$$



Write an equation for each of the following and solve.

22. Four times Audrey's age plus 7 is Parag's age. Parag is 51. What is Audrey's age?

$$\boxed{4x + 7 = 51}$$

Audrey is 11 yr. old

$$4x + 7 = 51$$

$$\frac{4x}{4} = \frac{44}{4} \quad x = 11$$

23. Larue scored 10 points less than 3 times the number of points that Ross scored. Larue scored 11 points. How many points did Ross score?

$$\boxed{3x - 10 = 11}$$

$$3x = 21 \quad \boxed{x = 7}$$

Ross scored 7 points

Write an inequality for each of the following and solve.

24. Seth earns \$7 per hour working at the library. Write and solve an inequality that can be used to find how many hours he must work in a week to earn at least \$175.

$$\frac{7x}{7} \geq \frac{175}{7}$$

$$\boxed{x \geq 25}$$

At least 25 hrs.