

Skills Check

Date _____

Skill#1--Solving ONE Step equations.

1) $\frac{x}{2} = -20$

2) $x - 6 = -13$

Skill #2--Solving MULTI Step Equations

3) $4n + 2n = -6$

4) $-14 = 1 + 4x + x$

Skill #3--Solving Equations with PARENTHESES.

5) $-96 = 8(v - 8)$

6) $-116 = -4(1 + 7p)$

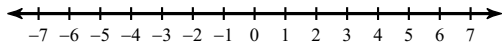
Skill #4--Solving Equations from Scenarios.

7) Adam bought a magazine for \$7 and seven notepads. He spent a total of \$35. How much did each notepad cost?

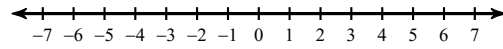
8) Paul won 37 super bouncy balls playing basketball at the county fair. At school he gave two to every student in his math class. He only has 7 remaining. How many students are in his class?

Skill #5--Graphing Inequalities

9) $a \geq 4$

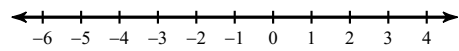


10) $v \geq -2$

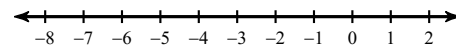


Skill #6--Solving ONE Step Inequalities.

11) $3 + n < -1$

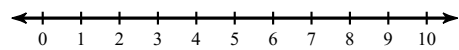


12) $14 \leq n + 19$

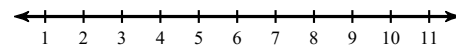


Skill #7--Solving TWO Step Inequalities.

13) $-2 < -4v + 3v$



14) $4x - 4x > 0$



Skill#8--Solving One-Step Absolute Value Equations

15) $|b + 10| = 9$

16) $\left| \frac{n}{2} \right| = 3$

Skill#9--Solving Multi-Step Absolute Value Equations

17) $|n + 10| + 1 = 18$

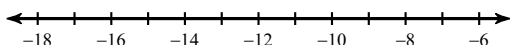
18) $|x - 2| - 10 = -7$

19) $|-3 - r| = 2$

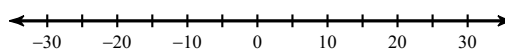
20) $|-n - 2| = 6$

Skill#10--Solving One-Step Absolute Value Inequalities

21) $|x + 10| > 1$

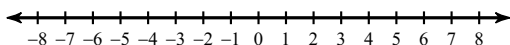


22) $|\frac{b}{6}| < 5$

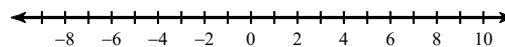


Skill#11--Solving Multi-Step Absolute Value Inequalities

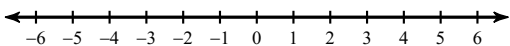
23) $|\frac{b}{5}| + 1 > 2$



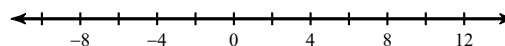
24) $|2x| + 3 > 13$



25) $|9r + 9| \leq 36$



26) $|8 - 6n| > 40$



Skill #12--'y'-Form

Rewrite each equation in Slope-Intercept Form. ($y = mx+b$)

27) $x + 3y = 9$

28) $2x + 7y = 14$

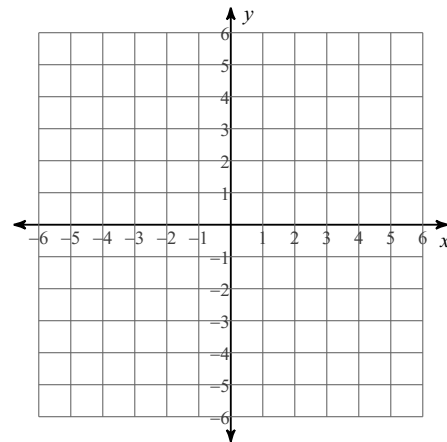
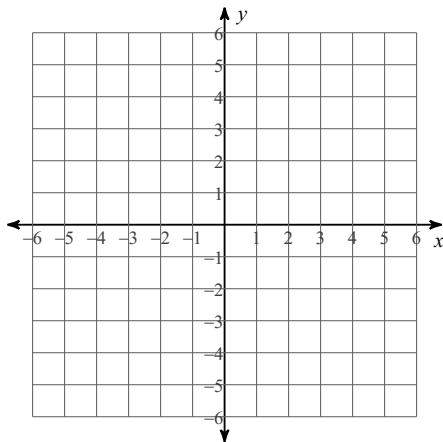
29) $x = -8$

Skill #13--Graph each line using the y-int and the slope.

(Rewrite in y-form when needed).

30) $y = 3x - 3$

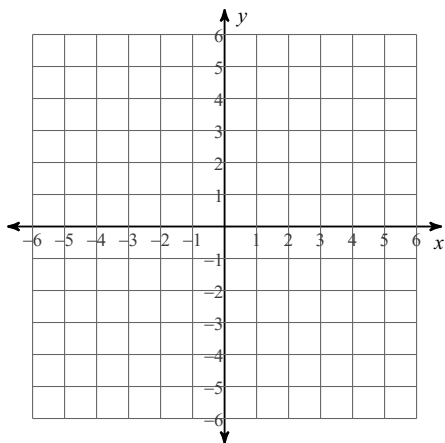
31) $7x + 2y = 10$



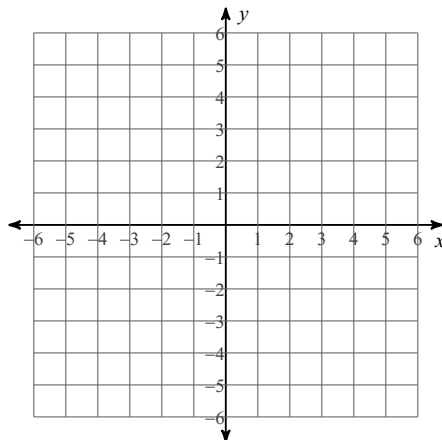
Skill#14--Graph each line using an x/y table.

(Make sure your table includes a positive number, zero and a negative number).

32) $y = -\frac{1}{3}x - 4$

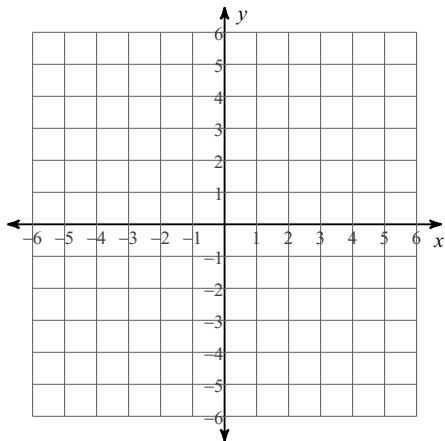


33) $y = -3x - 4$



Skill #15--Graph each line by finding the x and y intercepts.

34) $3x - 4y = -12$



35) $9x - y = 5$

