

## Ch. 5 Board PROBLEMS

Distribute;

$$\textcircled{1} -x(y + z + m) =$$

$$\textcircled{2} A^2(3 + B) =$$

FACTOR

$$\textcircled{3} -7x - 35t = 49$$

$$\textcircled{4} 20A + 40D = 100$$

Solve

$$\textcircled{5} 3x + 18 = 48$$

$$\textcircled{6} 20\% = \frac{\quad}{\text{decimal}} = \frac{\quad}{100} = \underline{\quad}$$

$$\textcircled{7} 3\frac{2}{3} + \frac{5}{12}k = -1\frac{1}{4}$$

# NOTES CH. 5

## GRAPHING IN ONE-DIMENSION.

Graph

5

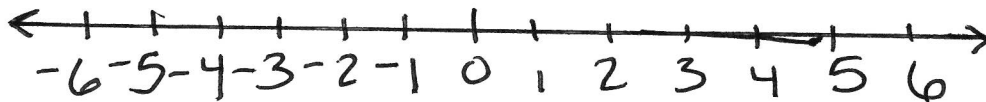
-4.2

$\pi$

$\frac{1}{2}$

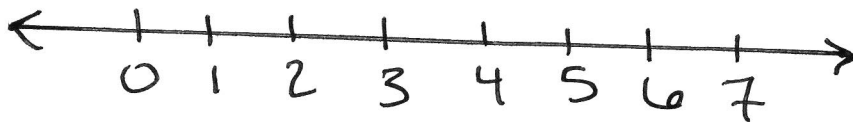
-1

①



②

GRAPH EVEN NUMBERS BETWEEN 1  $\frac{3}{4}$  7



③

GRAPH  $-3 \leq x \leq 1$



④

GRAPH ALL NUMBERS GREATER THAN 2. ( $x > 2$ )



⑤

GRAPH  $x \geq \frac{5}{2}$

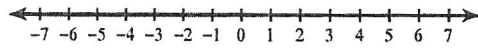


## Graphing Inequalities

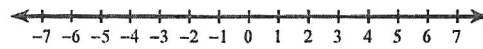
Draw a graph for each inequality.

  $\leq$  or  $\geq$ 

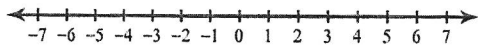
1)  $n \leq -5$



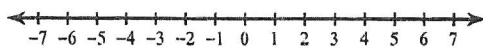
2)  $n \leq 5$



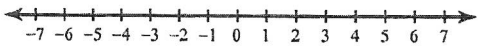
3)  $x < 1$



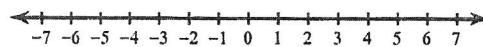
4)  $r > 2$



5)  $n > 5$



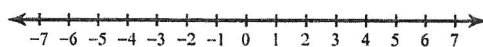
6)  $r \leq -2$



7)  $k \leq -2$



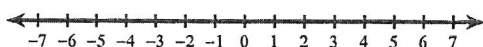
8)  $m < -5$



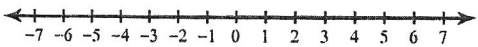
9)  $x \geq 2$



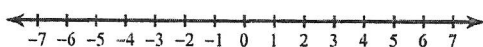
10)  $-5 \geq v$



11)  $-2 \geq v$



12)  $x < 5$



# NOTES CH. 5

## CARTESIAN COORDINATE SYSTEM

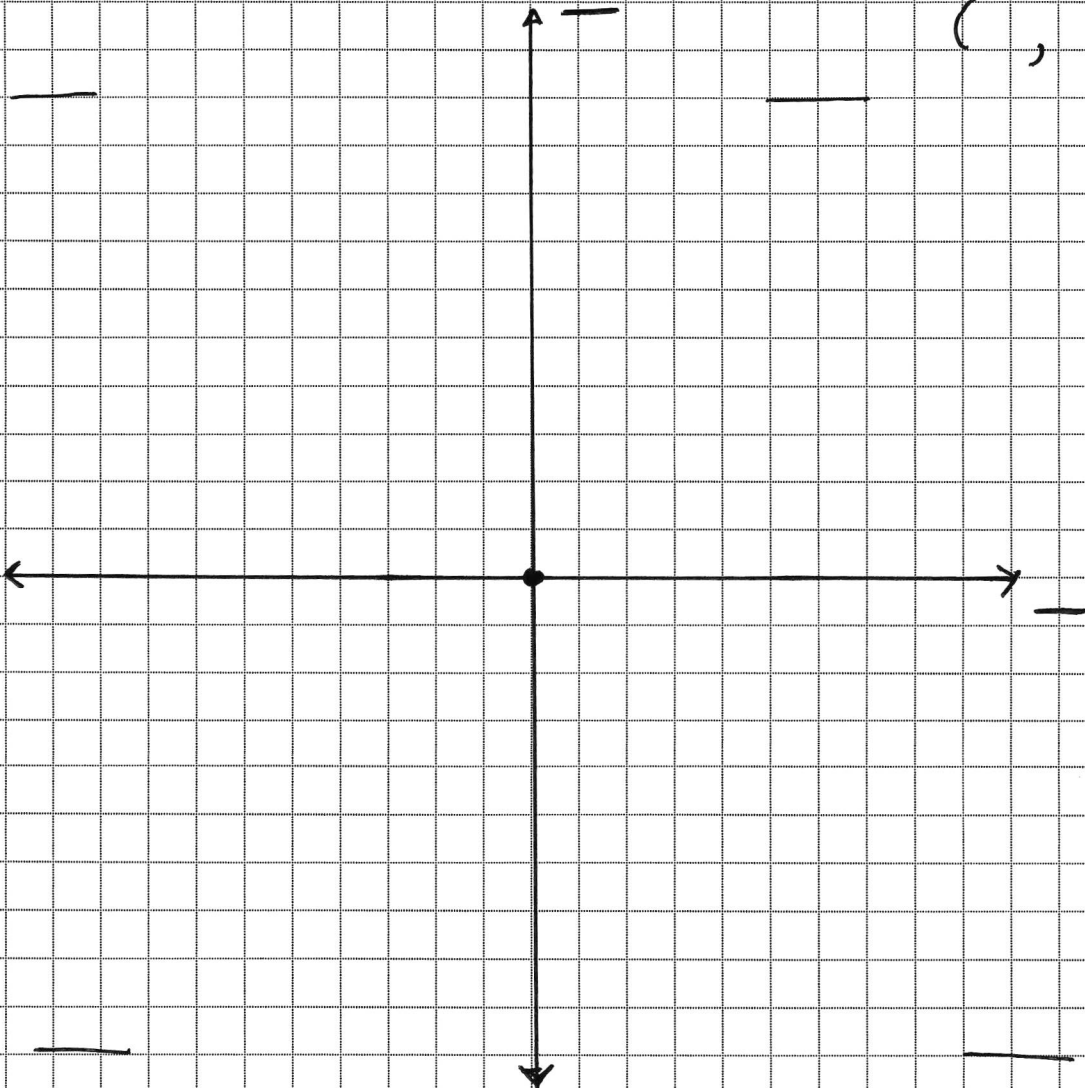
NAMED AFTER :

START AT ORIGIN

MOVE 'X'  $\longleftrightarrow$

MOVE 'Y'  $\updownarrow$

( , )



PLOT :  $(3, 2)$  A  
 $(-3, 4)$  B  
 $(-2, -1)$  C

$(2, -4)$  D  
 $(0, -3)$  E

SYSTEMATIC REVIEW  
Ch. 5 PRACTICE

Write as a decimal and percent.

$$\textcircled{1} \frac{1}{8} =$$

$$\textcircled{2} \frac{3}{5} =$$

$$\textcircled{3} \frac{2}{3} =$$

$$\textcircled{4} \frac{2}{9} =$$

## LESSON PRACTICE

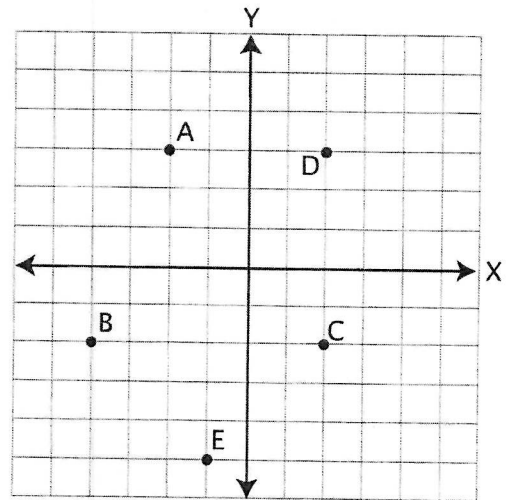
Follow the directions for each graph.

1. Write the coordinates of point A.

2. In what quadrant is point A?

3. Write the coordinates of point B.

4. In what quadrant is point B?



5. Write the coordinates of point C.

6. In what quadrant is point C?

7. Write the coordinates of point D.

8. In what quadrant is point D?

9. Write the coordinates of point E.

10. In what quadrant is point E?

11. Graph and label point F.  $(-3, 5)$

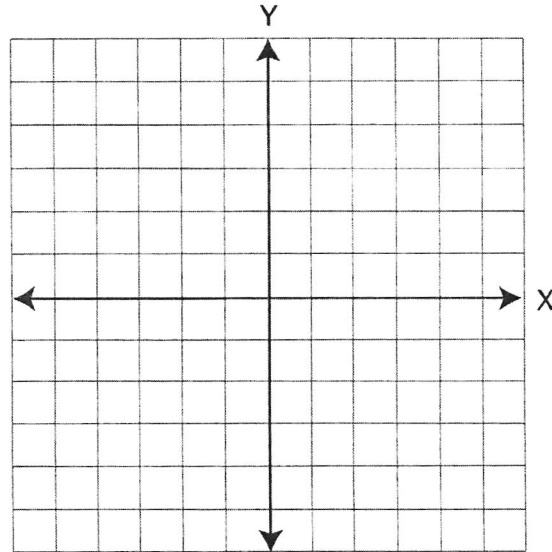
12. In what quadrant is point F?

13. Graph and label point H.  $(4, 6)$

14. In what quadrant is point H?

15. Graph and label point J.  $(5, -3)$

16. In what quadrant is point J?



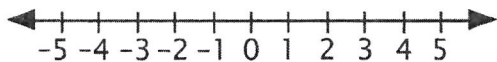
17. Descartes developed the Cartesian coordinate system to show algebra \_\_\_\_\_.

18. In the fourth quadrant, X is \_\_\_\_\_ and Y is \_\_\_\_\_.

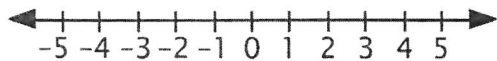
19. Graph  $(5, 2)$ ,  $(5, -1)$ , and  $(5, 5)$ . What do these have in common?

20. If you draw a line through these points, it has a(n) \_\_\_\_\_ coordinate of \_\_\_\_\_.

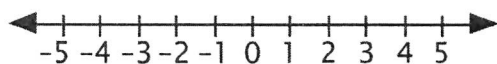
21. Plot all the odd numbers between  $-5$  and  $4$ .



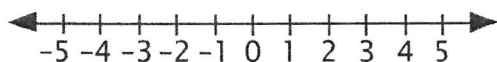
22. Plot all the values between and including  $0$  and  $3$ .



23. Plot all the values of  $X \geq 0$ .



24. Plot all the values of  $X \leq -\pi$ .



# HALLOWEEN CARTESIAN ART COORDINATES

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_

Plot the coordinate points on this page on a coordinate grid to discover the picture. Join the points in order with line segments. Use the color shown for best results.

Line 1 {Orange}: (2,15), (3,14), (6,14), (9,12), (7,12), (8,10), (4,12), (3,10), (1,12), (-2,9), (-3,12), (-7,10), (-5,13), (-10,12), (-7,14), (-6,14), (-4,15), (-2,15), (-1,16)

Line 2 {Orange}: (9,12), (12,8), (14,3), (15,-2), (15,-8), (13,-14), (11,-17), (9,-20), (5,-22), (0,-23), (-4,-22), (-7,-21), (-9,-20), (-12,-18), (-14,-15), (-15,-12), (-16,-6), (-15,1), (-14,5), (-12,9), (-10,12)

Line 3 {Green}: (-1,16), (-3,22), (0,23), (2,15), (3,13), (2,14), (1,13), (0,14), (-1,13), (-1,14), (-2,14), (-1,16)

Line 4 {Black}: (-4,1), (-7,1), (-4,6), (-4,1)

Line 5 {Black}: (5,1), (7,3), (4,6), (5,1)

Line 6 {Black}: (-2,-4), (0,1), (2,-4), (-2,-4)

Line 7 {Black}: (2,-7), (4,-11), (6,-7), (8,-9), (11,-7), (9,-11), (6,-17), (3,-14), (0,-19), (-4,-14), (-6,-16), (-9,-10), (-10,-5), (-7,-9), (-6,-8), (-5,-11), (-3,-8), (0,-11), (2,-7)



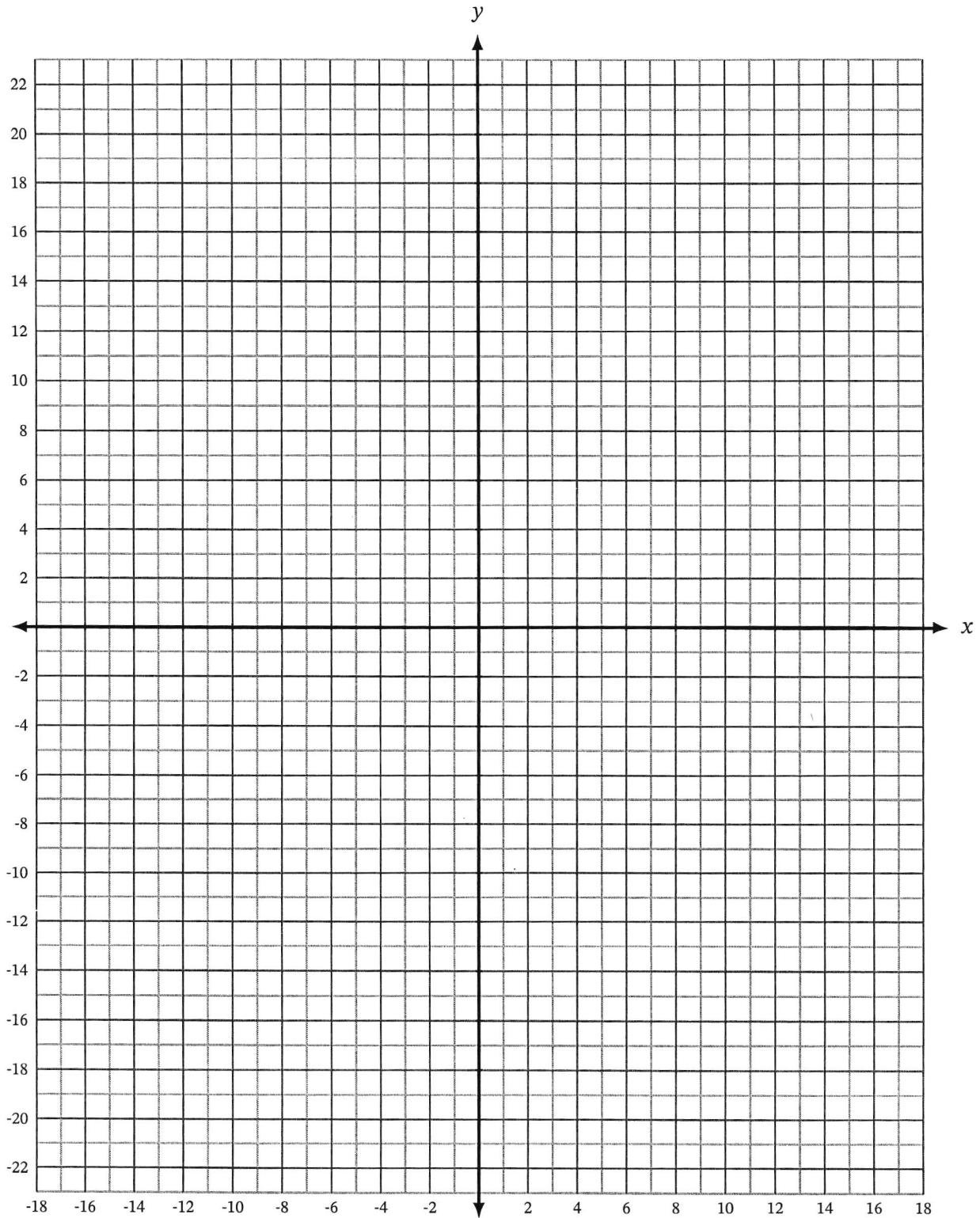
# HALLOWEEN CARTESIAN ART GRID

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_

Plot the coordinate points on this grid. Color the result.



HAPPY HALLOWEEN FROM MATH-DRILLS.COM!