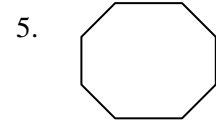
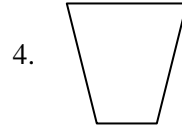
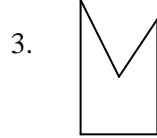
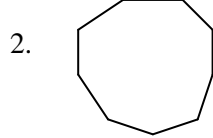
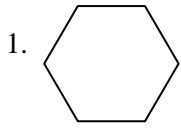


THE **ACADEMIC LEVEL GEOMETRY** BRIDGING ASSIGNMENT REVIEWS TOPICS THAT WERE COVERED IN GRADES 7-9. ALL REQUIRED WORK MUST BE SHOWN TO RECEIVE CREDIT FOR THE ANSWER. POINTS WILL BE DEDUCTED FROM THE GRADE FOR LATE ASSIGNMENTS. RETURN COMPLETED ASSIGNMENT TO THE MAIN OFFICE BY **AUGUST 20, 2018.**

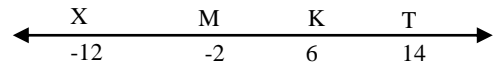
Name _____

Identify the polygon by its name.



Use the number line that is drawn to answer the questions.

6. the coordinate of point M is _____



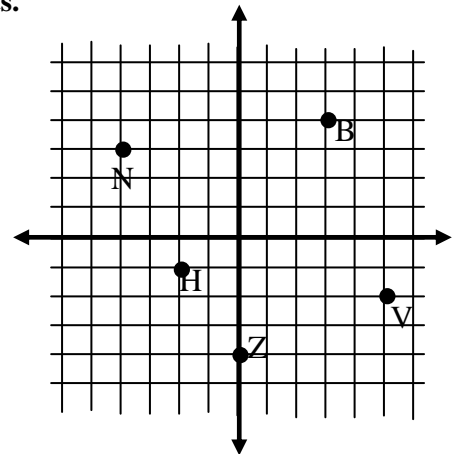
7. the distance between K and M is _____

8. the distance between X and T is _____

9. the coordinate of the midpoint of KX is _____

Use the coordinate plane to the right and identify the coordinates of the points.

10. H 11. N 12. V 13. Z 14. B



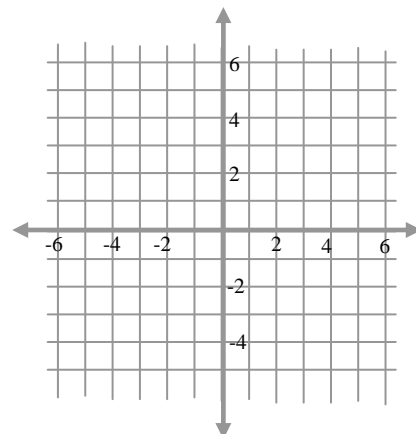
Plot and label the points on the coordinate plane to the right.

15. $D(-4,-3)$ 16. $W(-2,4)$ 17. $T(-3,0)$ 18. $P(6,-5)$

Calculate the area and perimeter of the triangle formed by the points

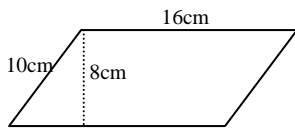
19. $(6,-2)$, $(-6,-2)$ and $(-6,3)$

****use the Pythagorean Theorem to find the longest side**

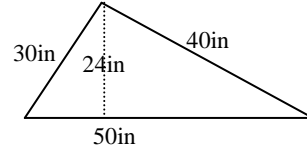


Calculate the area. Include units in the answer.

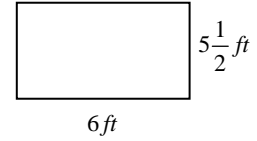
20. parallelogram



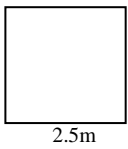
21. triangle



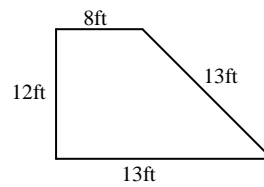
22. rectangle



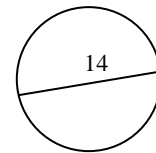
23. square



24. trapezoid



25. circle **round to nearest tenth



Illustrate the following:

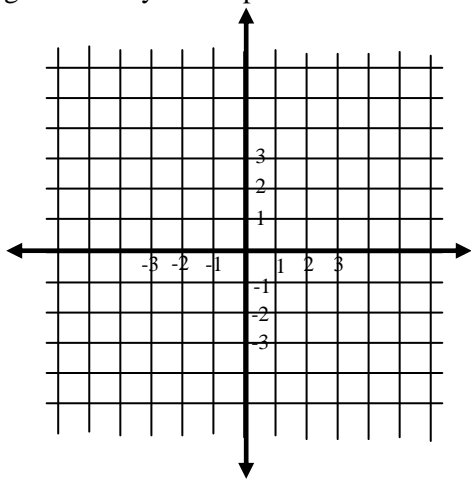
26. a scalene right triangle

27. an obtuse isosceles triangle

28. a rhombus

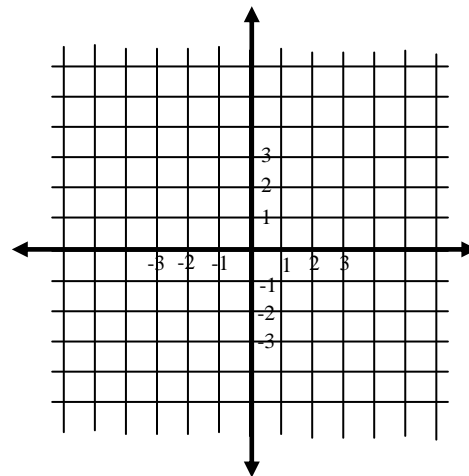
29. Graph the line using the x and y intercepts

$$3x - 4y = 12$$



30. Identify the slope and y-intercept and graph the line.

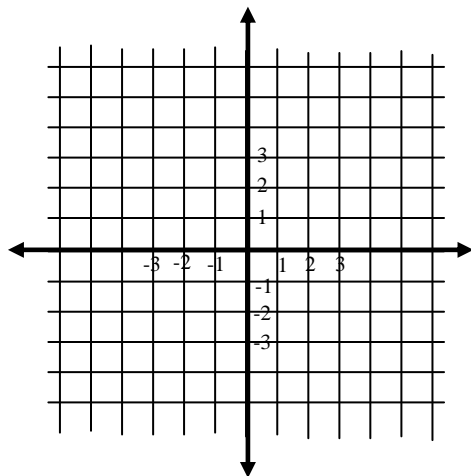
$$y = -\frac{5}{6}x + 2$$



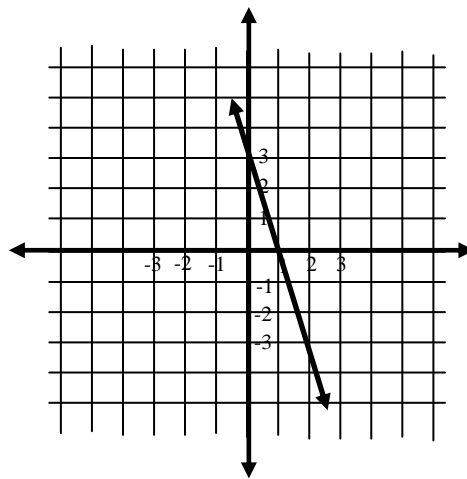
31. Graph the lines and identify the point of intersection

$$x = -4$$

$$y = -x$$



32. Identify the slope and the coordinates of the x-intercept and y-intercept



Slope-intercept form $y = mx + b$

Standard form $Ax + By = C$

Change the equation into slope-intercept form.

33. $5x - 4y = 12$

Convert to standard form.

34. $y = -\frac{5}{9}x - 2$

Slope-intercept form $y = mx + b$

Point-slope form $y - y_1 = m(x - x_1)$

Standard form $Ax + By = C$

Write the equation of the line in standard form.

35. $m = -\frac{5}{2}$ with a y-intercept of $\frac{3}{4}$

Write the equation of the line in slope-intercept form.

36. line passes through $(2, 5)$ and $(-2, -3)$

Solve the equations.

37. $-5 + 4a + 3 = 7a - 9 - 2a$

38. $4(x - 4) + (x + 26) = 180$

39. $\frac{4}{3x - 7} = \frac{2}{x + 5}$

40. $9 = \frac{4 + 5b}{6}$

41. $15(j - 3) + 3j < 45$

42. $r - 2 \leq 1$ or $3 - r < -2$

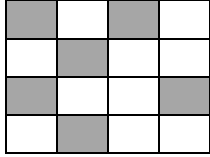
Express each ratio in the simplest terms. (change all units to match)

43. $\frac{18}{21}$

44. $\frac{10in}{2ft}$

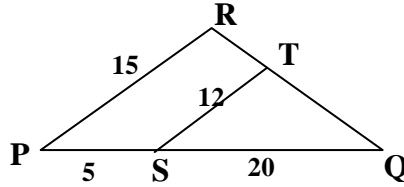
45. $\frac{5cm}{15mm}$

46. unshaded : total



47. RP : TS

48. PS : SQ



Solve each proportion.

49. $\frac{x}{9} = \frac{11}{6}$

50. $\frac{4}{y} = \frac{6}{7}$

51. $\frac{9}{6} = \frac{2a+3}{2}$

Use a proportion to solve.

52. The number of gallons g of fuel used on a trip varies directly with the number of miles m traveled.
If a trip of 270 miles required 18 gallons of fuel, how many gallons are required for a trip of 400 miles?

Illustrate and label the sides of the polygon. Create an algebraic model and solve.

53. The sides of a rectangle are consecutive integers. The rectangle has a perimeter of 106 ft. Find the length of the sides of the rectangle.

54. Carrie walks 120 feet east then 160 feet south. Find the distance between the point where she started and the point where she ended. hint: use the Pythagorean Theorem

Illustrate the relationship.

55. a pair of parallel lines

56. a pair of perpendicular lines

57. 2 lines that are not parallel nor perpendicular