11-3   Line Symmetry

Name: _____   Time⟩ Start: _____   Finish: _____   Total Time = _____

A B C D E F H I J N S T W

1.   From the list above, tell which letters have

a.) horizontal symmetry   _____

b.) vertical symmetry   _____

c.) rotational symmetry (Point) _____

2.   If A = (3, -2) and it is reflected over the y-axis, where will it land? _____

3.   If A = (-4, -1) and it is reflected over the x-axis, where will it land?   _____

4.   If A = (5, 4) and it is reflected over the y-axis, where will it land? _____

5.   If A = (0, 4) and it is reflected over the x-axis, where will it land? _____

6.   If A = (1, -7) and it is reflected over the line y = 4, where will it land?   _____

7.   If A = (-2, -8) and it is reflected over the line x = 2, where will it land?   _____

8.   If A = (1, -2) and it is reflected over the line y = 9, where will it land?   _____

9.   If A = (0, -2) and it is reflected over the line y = 6, where will it land?   _____

10.   If A = (-6, -4) and it is reflected over the line x = 1, where will it land? _____

11.   If A = (3, 2) and it is reflected over the line y = x, where will it land?   _____

12.   If A = (-4, 1) and it is reflected over the line y = x, where will it land?   _____

Tell if the given shapes have line symmetry, point symmetry, or both?

13.   Square   _____

14.   Rectangle   _____

15.   Isosceles Triangle   _____

16.   Isosceles Trapezoid   _____
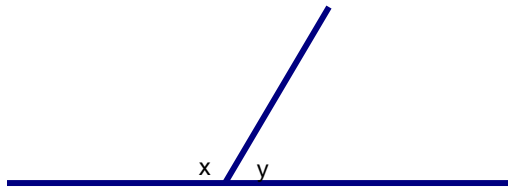
17.   5 sided star   _____

18.   Circle   _____

SAT Questions – All have videos

_____ Trig 1-1   27.   Let the lengths of the sides of a triangle be represented
by x + 3, 2x − 3, and 3x − 5. If the perimeter of the triangle is 25,
what is the length of the shortest side?

_____ Trig 1-1   28.   In the figure below, if x is 150 more than y, what is the value of y?

For 17-18, the following rule is to be used.
For any positive integer n, €(n) represents the number of positive divisors of n.
(For example €(10) = 4 since the positive divisors of 10 are 1, 2, 5, and 10.)

_____ Trig 1-3   17.   Which of the following is (are) true?

I. €(5) = €(7)

II. €(5) ● €(7) = €(35)

III. €(5) + €(7) = €(12)

A. I only
B. II only
C. I and II only
D. I and III only
E. I, II, and III

_____ Trig 1-3   18.   What is the value of €(€(€(12)))?