***Making Shapes*** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ON THIS PAGE, ONLY IDENTIFY POINTS FOR WHICH THE COORDINATES ARE INTEGERS, AND ONLY IDENTIFY POINTS THAT ARE ON THE GRID (THERE ARE MANY OTHERS OFF THE GRID)**

1. a) What are the coordinates of the points?

b) Identify all possible locations for a 4th point that would result in a parallelogram

c) How many points will result in a trapezoid (not including the 3 points from part b)?



2. a) Determine the slope between the two points.

b) Identify all possible locations (on the grid) for a third point that would result in a straight line.

c) Identify all possible locations for a third point that would result in a right angle triangle (there are 5 that are on the grid).

ANSWERS (I think!)

1. a) (5, 0), (1,6), (–3, –2) b) (–7,4), (9,8), (1, –8) c) 12 points (not including 3 from b)
2. a) m= $\frac{3}{5}$ b) (–2,2) or (8, –4) c) (6,4), (9,9), (0, –6), (–4,10), (–10, 0)

