Name:

Complete as many of the following problems as you can with your group. You do not have to go in order. Each group will be given a specific problem that they must complete and present to either Professor MG or to Stefanie before they leave.

If **your entire table** finishes early, and you have presented your given problem, you may leave early.

- 1. Find the mean of the numbers -3, -4, 6, 9
- 2. Find the median of the set 2, 3, 6, 9, 11
- 3. Find the domain and range of the relation $S = \{(1,3), (2,5), (1,6)\}$
- 4. Find the midpoint of the line segment that connects (4,3) and (-2,5)
- 5. Graph the following coordinates: (2,3), (-4,5), (3,1), and (-1,-3)
- 6. Find the center and radius of the following circle: $x^2 6x + y^2 + 4y + 4 = 0$
- 7. Find the distance between (1,3) and (5,-1)
- 8. Write each verbal function representation in its symbolic representation. Then simplify the expression. Let x represent the number:
 - (a) y is six more than the product of negative four and a number
 - (b) Divide a number by 6 then add 5 to produce y
 - (c) y is equal to 3 less than a number multiplied by itself
- 9. Write the following in interval notation:
 - (a) $\{x: 6 < x \le 10\}$ (b) $\{x: x < -6\}$

Note: We did not get to the material for problems 8 and 9 in class, so you may skip them.

1.	2	5.	Check with a graphing utility		(b) $y = \frac{x}{6} + 5$
2.	4.5	6.	Center: $(3, -2)$, Radius: 3		(c) $y = x^2 - 3$
3.	$D = \{1,2\}, R = \{3,5,6\}$	7.	$4\sqrt{2}$	9.	(a) $(6, 10]$
4.	(1,4)	8.	(a) $y = -4x + 6$		(b) $(-\infty, -6)$