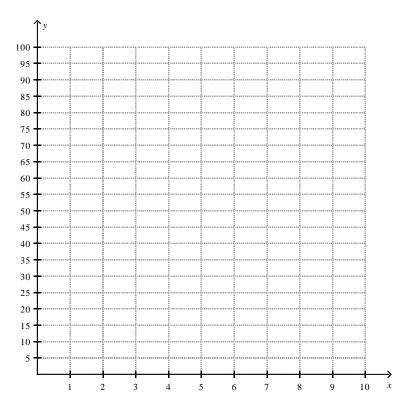
Unit 2 Linear Functions	Name	
Day 1 Homework	Date	Hour

<u>Part 1</u>

Robert can solve 15 mathematics problems per hour. He starts solving at 7:00 pm. Marie can solve 20 math problems per hour and she starts at 8:00 pm. At what time will they have solved the same number of mathematics problems and how many will they have solved?

Solve this problem graphically and with a table.



Time (Hours)	Number of Solved Problems (Robert)	Number of Solved Problems (Marie)
0		XXXXXXXXXX
1		
2		

- 1. At what time will they have solved the same number of mathematics problems?
- 2. How many will they have solved?
- 3. At what time will they have solved 180 mathematics problems?

Robert:	
Marie:	

<u>Part 2</u>

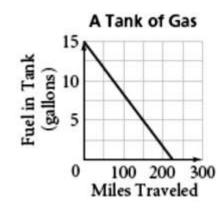
The rate of change is constant in each table and graph. Find the rate of change. Explain what the rate of change means for each situation.

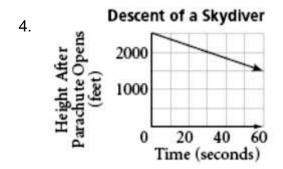
1	
	٠

Time (hours)	Temperature (°F)
1	-2
4	7
7	16
10	25
13	34

2
2

People	Cost (dollars)
2	7.90
3	11.85
4	15.80
5	19.75
6	23.70





Find the rate of change for each situation.

5. A baby is 18in long at birth and 27 in long at ten months.

6. You drive 30 mi in one hour and 120 mi in four hours.

3.