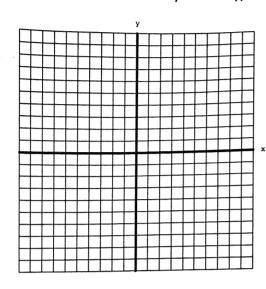
1. Your English teacher is giving you a test worth 200 points containing only 6 questions. There are some short answer questions that are worth twenty-five points each and there are some essay questions that are worth fifty points each. How many of each type of question are there on the test?



$$x+y=6$$
 $25x+50y=200$
(4,2)

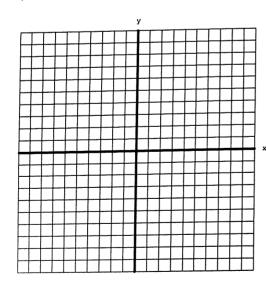
points each and there on the test?

$$X+y=6$$
 $25x+50y=200$

4 25 point short answer questions

2 50 point essay questions

2. You spent the day with your nieces. You bought 4 tickets to the drive-in and 2 tickets to the museum, and paid \$70. Your friend joined you and she bought 2 tickets for the drive-in and 4 tickets for the museum, and she paid \$80. How much were one ticket to the drive-in and one ticket to the museum?



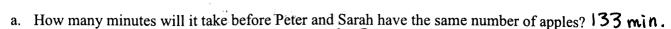
$$4x+2y=70$$
 $2y=-4x+70$
 $2x+4y=80$ $y=-2x+35$

$$4y = -2x + 80$$

 $y = -\frac{1}{2}x + 20$

Name	

3. Farmer Peter and Farmer Sarah are picking apples from their apple trees. Farmer Peter has already picked 287 apples. Farmer Peter picks another 5 apples each minute. Farmer Sarah has already picked 154 apples. Farmer Sarah picks another 6 apples each minute.



b. How many apples will they have at that time? 952 apples P:
$$y = 5 \times 1287$$
 (133, 952)

- 4. You buy 5 bags of chips and 9 bags of pretzels for \$16.95. Later you buy 10 bags of chips and 10 bags of pretzels for \$25.50.
 - c. How much does each bag of chips cost? \$1.50
 - d. How much does each bag of pretzels cost? \$1.05

$$5x+9y=16.95$$

 $10x+10y=25.50$