Math 105 Graded Homework 5  Name _________________________________
Due Wednesday, February 24.  Show your work.  Simplify each answer.
1. Eight hundred children participated in a study about home schooling and traditional schooling for learning mathematics. Here are their results on math tests:

<table>
<thead>
<tr>
<th></th>
<th>8th grade</th>
<th>12th grade</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>passed</td>
<td>failed</td>
</tr>
<tr>
<td>home school</td>
<td>78</td>
<td>222</td>
</tr>
<tr>
<td>traditional</td>
<td>25</td>
<td>75</td>
</tr>
</tbody>
</table>

(a) For 8th graders, what percentage of the home schoolers failed the test?

(b) For 8th graders, what percentage of the traditional students failed the test?

(c) Which group of 8th graders -- home schooled or traditional -- performed better?

(d) For 12th graders, what percentage of the home schoolers failed the test?

(e) For 12th graders, what percentage of the traditional students failed the test?

(f) Which group of 12th graders -- home schooled or traditional -- performed better?

(g) Overall, including both grade levels, what percentage of home schoolers failed the tests?

(h) Overall, including both grade levels, what percentage of traditional students failed the tests?

(i) Overall, which group of students -- home schooled or traditional -- performed better?

2. Josh's income is $600 per month from a job, plus $1000 per month from his parents. His expenses are $3000 per semester for tuition (twice a year), $400 per semester for textbooks (twice a year), $450 per month rent, $400 for car insurance twice a year, $30 per week for gas, $90 per week for food.

(a) Tell Josh's prorated monthly expenses. Use 1 month = 4 weeks.

(b) Find Josh's monthly net cash flow.