Part 2 Answer the following questions:

1. On a recent trip I traveled 165 miles in three hours. On a different trip I traveled 150 miles in two hours. In which trip did I travel the fastest? Verify your answer.

$\frac{165\text{ mi}}{3\text{ hrs}} = \frac{55\text{ mi}}{1\text{ hr.}}$ $\frac{150\text{ mi}}{2\text{ hr.}} = \frac{75\text{ mi}}{1\text{ hr}}$

2. An average pack of chocolate chip cookies has 51 cookies. If there are 3 rows of cookies, how many cookies in each row? What if there were 4 rows of cookies-about how many would be in each row?
Justify your answer by showing your work?

$\frac{51\text{ cookies}}{3\text{ rows}} = \frac{17\text{ cookies}}{1\text{ row}}$ $\frac{51\text{ cookies}}{4\text{ rows}} = \frac{\approx 13}{1\text{ row}}$

3. If a track runner can run 25 miles in 5 hours, what is their average speed per hour(Unit Rate)?

$\frac{25\text{ mi}}{5\text{ hrs.}} = \frac{5\text{ mi}}{1\text{ hr}}$

4. In Social Studies, for every 10 assignments you turn in, you get 1 free homework pass. If you turned in 40 homework assignments, how many free homework passes would you receive? Use a proportion to verify your answer.

$\frac{10}{1} = \frac{40}{?}$ $40 \times 10 = 40 \div 10 = 4$ hmwk passes

5. Chris can run the 100 yard dash in 20 seconds. Sue can run the 1200 yard dash in 600 seconds. Whose time is the fastest? Find the unit rate for each to support your answer.

$\frac{100\text{ yds}}{20\text{ sec.}} = \frac{5\text{ yds}}{1\text{ sec.}}$ $\frac{1200\text{yds}}{600\text{ sec.}} = \frac{2\text{ yds}}{1\text{ sec.}}$