Group Activity 1

1. Divide the rectangle into 4 equal pieces, then shade $\frac{3}{4}$ of the rectangle.

2. Divide the rectangle into 4 equal pieces, then shade $1 \frac{1}{4}$ of the rectangle. (Hint: You may need to draw another rectangle!)

3. Divide the rectangle into 4 equal pieces, then shade $\frac{7}{4}$ of the rectangle. (Hint: You may need to draw another rectangle!)

4. Divide the rectangle into 8 equal pieces, then shade $\frac{7}{8}$ of the rectangle.

5. What is the similar and what is different in your two pictures from problems 3 and 4?
6. Suppose the following rectangle represents someone’s monthly income of $2000.

(a) Divide the rectangle into 4 equal pieces.
(b) Divide the $2000 into 4 equal pieces. How much money is in each piece?
(c) Write the amount from part (b) in each of the 4 pieces.
(d) Lightly shade $\frac{3}{4}$ of the rectangle.
(e) How much is $\frac{3}{4}$ of $2000$?

7. Suppose the following rectangle represents someone’s monthly income of $2000.

(a) Divide the rectangle into 8 equal pieces.
(b) Divide the $2000$ into 8 equal pieces. How much money is in each piece?
(c) Write the amount from part (b) in each of the 8 pieces.
(d) Lightly shade $\frac{11}{8}$ of the rectangle. (Hint: You may need to draw another rectangle!)
(e) How much is $\frac{11}{8}$ of $2000$?
8. Suppose the following rectangle represents Bart’s credit card balance of $1500.

(a) How many equal pieces is the rectangle divided into?
(b) Divide the $1500 into 100 equal pieces. How much is in each piece?
(c) Lightly shade 3% of the rectangle.
(d) Bart had to pay 3% of his credit card balance to the bank in interest. How much was his interest payment?