## Quiz 6A, $MTH_{Dr. Graham-Squire, Spring 2015}$ – No Calculators

Name: \_

1. (2 points) "I bought a bag of sugar with S cups of sugar in it. First, I used  $\frac{1}{5}$  of the sugar in the bag for a brownie recipe. Then, I used  $\frac{1}{2}$  cup of sugar to make pancakes. After that I gave  $\frac{1}{4}$  of the remaining sugar in the bag to my neighbors. When all of that was done, I had only  $\overline{2}$  cups of sugar left." Write an equation, involving S, that corresponds to the situation described above.

2. (3 points) The pattern below consists of a row of black squares surrounded by white squares.



How many white squares would surround a row of 312 black squares? Show/explain your work!

- (A) 622
- (B) 624
- (C) 625
- (D) 628

3. (2 points) Ellen, John and Jim caught a total of 180 ladybugs. John caught twice as many as Ellen, and Jim caught 20 more than John. How many ladybugs did each individual catch? Show your work!

- 4. (3 points) There are C cups of soda in a bottle. Someone pours  $\frac{2}{5}$  of the soda out of the bottle. Which of the following expressions represents how much soda is left in the bottle? You should circle ALL correct answers-there may be more than one, or none at all, that are correct.
  - (A)  $C \frac{2}{5}$ (B)  $\frac{3}{5}C$ (C)  $(C - \frac{2}{5})C$ (D)  $(1 - \frac{2}{5})C$ (E)  $C - \frac{3}{5}C$