## Minitest 1A - MTH 2010

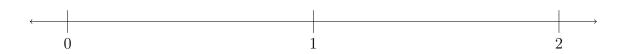
Dr. Graham-Squire, Fall 2014

Name	e:							
I pled	dge that I	have neither	given nor	received	any	unauthorized	assistance or	this exam
				(signat:	ure)			

## **DIRECTIONS**

- 1. Show all of your work and use correct notation. A correct answer with insufficient work or incorrect notation will lose points.
- 2. Clearly indicate your answer by putting a box around it.
- 3. Calculators, cell phones and computers are  $\underline{\text{not}}$  allowed on this test.
- 4. Make sure you sign the pledge.
- 5. Number of questions = 6. Total Points = 30.

- 1. (5 points)
  - (a) Compare the fractions by finding the *least* common denominator:  $\frac{9}{10}$  versus  $\frac{5}{6}$
  - (b) Plot the fraction  $\frac{4}{5}$  on the number line below.



- (c) Reduce the fraction to lowest terms:  $\frac{18}{30}$
- (d) Round 2,309.4348 to the nearest hundredth.
- (e) Compare the numbers (that is, write <, >, or = in between them):  $-1.8~{\rm versus}~-2.3$

- 2. (5 points) You are told that a rectangle has a width of 3 inches and a length of 4 inches, where each measurement is rounded to the nearest whole number. Which of the following is a possible value of A, where A is the area of the rectangle? Explain your answer or show your work to get full points.
  - (a) 8.5 square inches
  - (b) 9 square inches
  - (c) 16 square inches
  - (d) 16.5 square inches

3. (5 points) The table below summarizes the discounts you can get from local stores. You plan to buy two basketballs, each of which has a regular price of \$15.

Store #1: \$3 off the price of each basketball.

Store #2: 1/3 off the price of each basketball.

Store #3: Buy one basketball, get the second for half price.

Store #4: 20% off your total purchase.

At which store can you buy the basketballs for the least amount of money? Explain your reasoning and/or show your work.

4. (5 points) Jane has  $\frac{6}{7}$  of a pizza, and wants to give  $\frac{1}{3}$  of what she has to Joe. What fraction of the whole pizza will Jane have left for herself? Use a math diagram to help explain your answer.

- 5. (5 points) Compare the fractions (that is, put a symbol >, < or = in between them). You can use any method you choose, but you should avoid using common denominators, cross-multiplying, or reducing to decimals, as that could take you a long time. You can get full points without showing any work, but showing work or giving an explanation can get you partial credit if your answer is wrong.
  - (a)  $\frac{5}{8}$  versus  $\frac{7}{12}$
  - (b)  $\frac{97}{100}$  versus  $\frac{35}{38}$
  - (c)  $\frac{5}{21}$  versus  $\frac{7}{24}$
  - (d)  $\frac{6}{11}$  versus  $\frac{6}{13}$
  - (e)  $\frac{21}{22}$  versus  $\frac{56}{57}$

