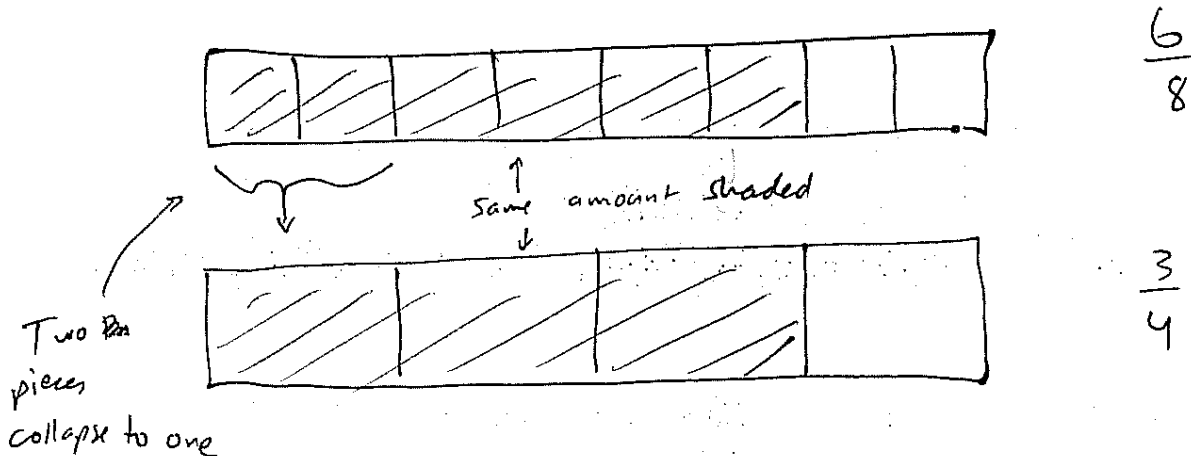


Quiz 1A, MTH 2010 - No Calculators

Dr. Graham-Squire, Spring 2015

Name: Key

1. (2 points) Using math drawing(s), explain why dividing both the numerator and denominator of the fraction $\frac{6}{8}$ by two produces an equivalent fraction. How does division by 2 show up in your math drawing(s)?



$$\frac{6 \div 2}{8 \div 2} = \frac{3}{4}$$

The math diagram shows that dividing top and bottom by 2 is the same as collapsing 2 boxes into one. Since the shaded area is the same, the fractions $\frac{6}{8}$ and $\frac{3}{4}$ are equivalent.

2. (2 points) Round 734.91351 to the nearest

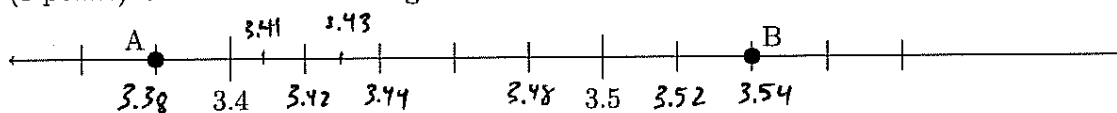
(a) Ten: 730

(b) Ten thousand: 0

(c) Tenth: 734.9

(d) Thousandth: 734.914

3. (3 points) Consider the following number line:



What is the distance between the points A and B ?

(i) 0.15

(ii) 0.16

(iii) 1.3

(iv) 8

$$\begin{array}{r} 3.54 \\ - 3.38 \\ \hline 0.16 \end{array}$$

4. (3 points) Which of the lists below is in order from least to greatest?

(i) $-0.033, -0.03, 0.03, 0.033$

(ii) $-0.03, -0.033, 0.033, 0.03 \rightarrow$ No, b/c $0.033 > 0.03$

(iii) $-0.03, -0.033, 0.03, 0.033 \rightarrow$ No, b/c $-0.033 < 0.03$

(iv) $-0.033, -0.03, 0.033, 0.03 \rightarrow$ No,