

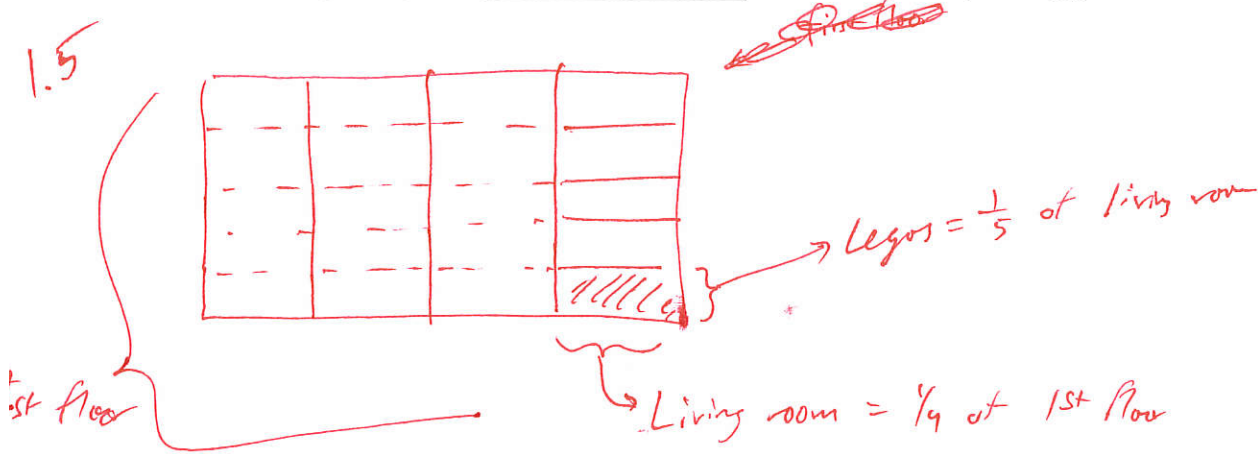
Quiz 1A, MTH 2010 - No Calculators

Dr. Graham-Squire, Spring 2017

Name: Key

3.5 min
⇒ 15 min. in class

1. (8 points) In Jennifer's house, $\frac{1}{4}$ of the first floor is taken up by the living room. $\frac{1}{5}$ of the living room is covered with Iris's Lego projects. What fraction of the first floor is covered by Iris's Lego projects? Use a math diagram to assist with explaining your answer.

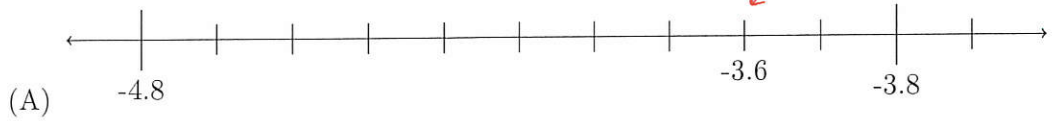


1.5 { The legos are $\frac{1}{20}$ of the 1st floor b/c the diagram shows 20 equal parts with only one shaded.

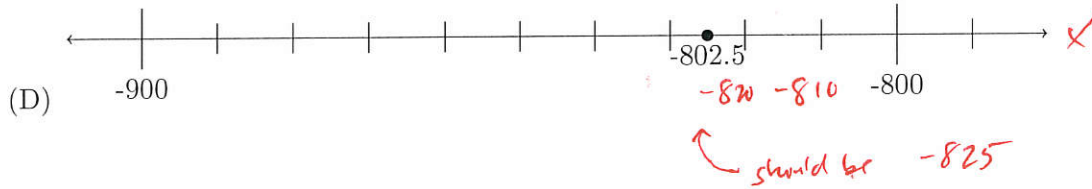
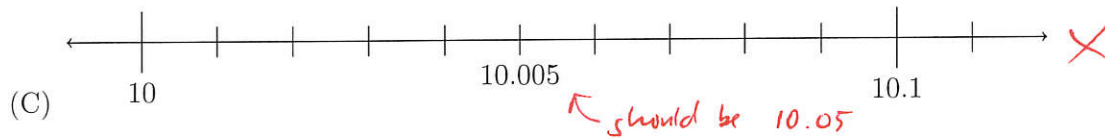
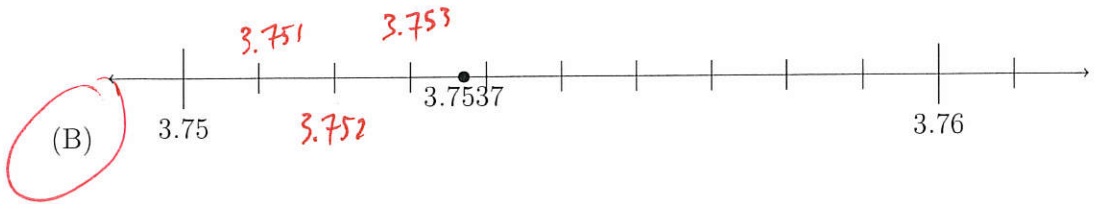
✓ (b) The legos are $\frac{1}{5}$ of the living room but they are $\frac{1}{20}$ of the entire first floor.
different wholes

— (if no explanation for (a)

- 3
2. (4 points) Which of the following is a correct number line, according to our decimal system?
Show/explain your work, if possible.



No, tick marks are wrong length.



3. (3 points) Round 74.9125 to the nearest

(a) Tenth: 74.9

(b) Thousandth: 74.913

(c) Ten: 70

(d) Hundred: 100

(e) Whole number: 75

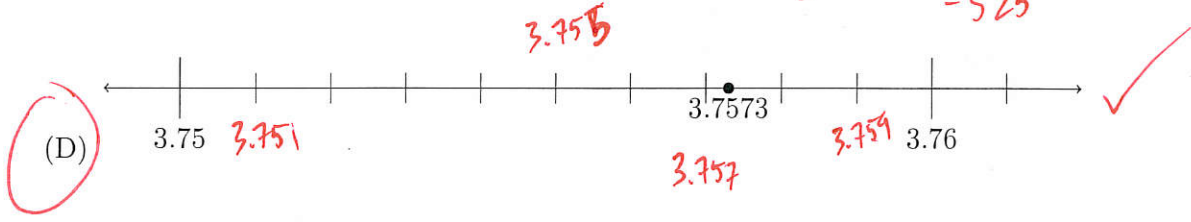
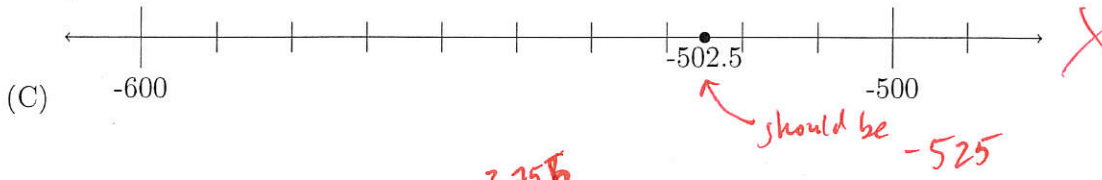
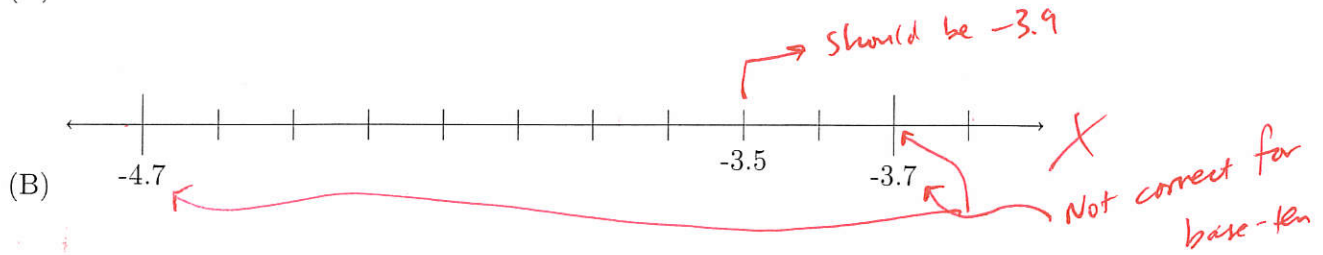
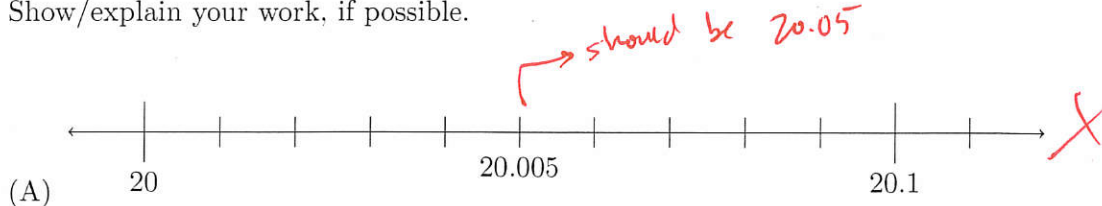
(f) Ten thousand: 0

Quiz 1B, MTH 2010 - No Calculators

Dr. Graham-Squire, Spring 2017

Name: Key

1. (3 points) Which of the following is a correct number line, according to our decimal system? Show/explain your work, if possible.



2. (3 points) Round 68.2185 to the nearest

(a) Whole number: 68

(b) Tenth: 68.2

(c) Ten: 70

(d) Hundred: 100

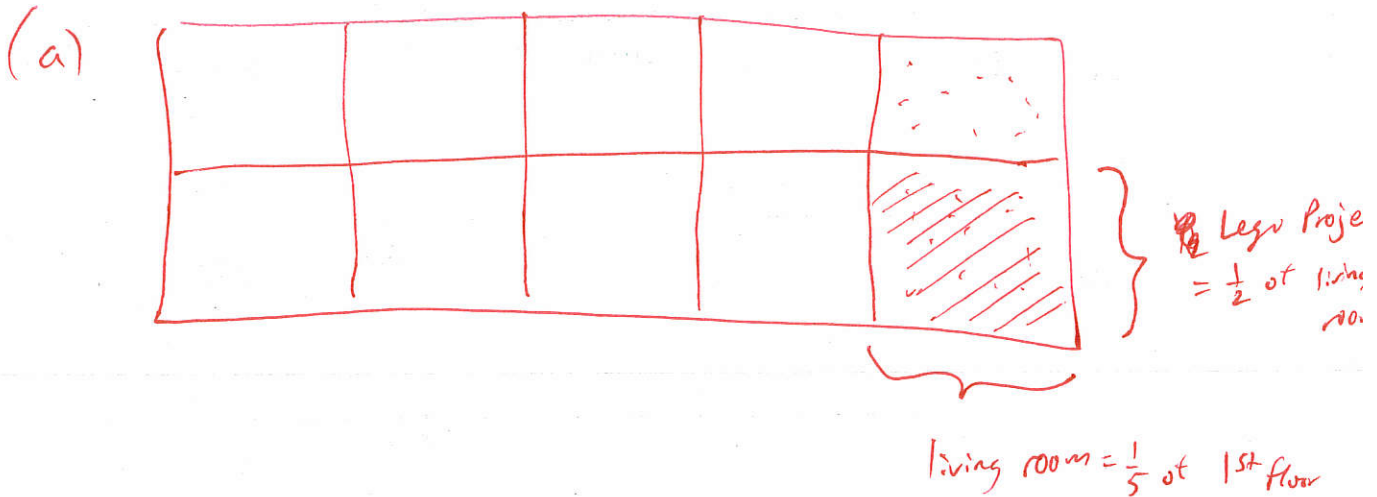
(e) Thousandth: 68.219

(f) Ten thousand: 0

3. (4 points) In Jennifer's house, $\frac{1}{5}$ of the first floor is taken up by the living room. $\frac{1}{2}$ of the living room is covered with Iris's Lego projects.

(a) What fraction of the first floor is covered by Iris's Lego projects? Use a math diagram to assist with explaining your answer.

(b) Explain how the Lego project can be described by two different fractions, depending on what *whole* you are referring to.



1 out of 10 equal blocks are shaded \Rightarrow $\frac{1}{10}$ of 1st floor is covered by Lego project.

(b) Lego project is $\frac{1}{10}$ of the 1st floor
 " " " $\frac{1}{2}$ of the living room
 different wholes