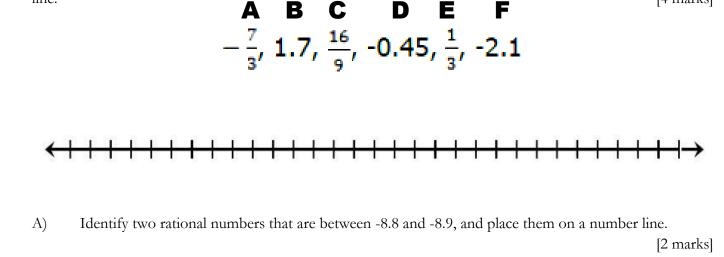
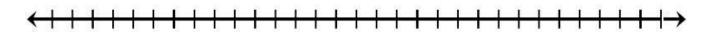
NAME:

2.

1. Order these rational numbers from least to greatest by placing them in their approximate locations on the number line. **A B C D E F** [4 marks]





B) Fully explain, *using the definition of a rational number*, how you know that -8.8 and -8.9 are rational numbers. [2 marks]

3. A) A baker has a recipe that requires $2\frac{1}{2}$ cups of flour that makes pastries for 12 people. He is making the dish for a group of 42 people. How much flour will he require? Show your reasoning. [3 marks]

40

B) A carpenter has 16.5 m of baseboard material. If he cuts off 7 pieces, each with a length of $2\frac{1}{4}$ m, how much material is left? Show your reasoning. [3 marks]



- 4. Evaluate each expression. Show all steps and remember to use fractions when you must! Fraction answers must be reduced to simplest form.
 - A) $-3.1 + 1.\overline{5} \times (-1.5) + 7.2 \div (-\frac{9}{10})$ [4 marks]

B) $\frac{1}{2} + \left(-\frac{3}{4}\right) \div \left(-\frac{1}{2}\right)^2$

C) Both Amanda and Emilee evaluated the expression; $2.3 + (-11.2) \div (-0.2) - 3.7$. Amanda's answer was 40.8 and Emilee's answer was 54.6.

(i) Who is correct? Please show your work.

(ii) What could be the error made by the other student?

5. Indicate *every* number set to which these numbers belong .

NUMBER	SETS CONTAINING THIS NUMBER
9	
-1.1	
$\frac{-4}{-7}$	
$\sqrt{99}$	
π	
$\frac{2.3}{-3.6}$	

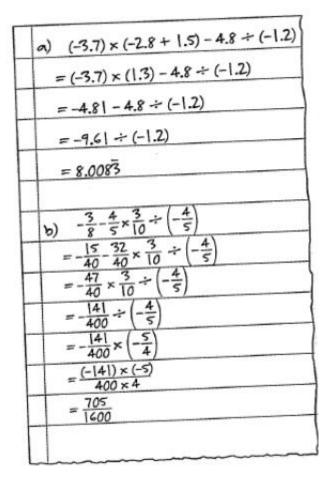
[1 mark]

[4 marks]

[3 marks]

[6 marks]

6. Choose **ONE** of the problems below. Find, and indicate any errors in the students work and write the correct solution in the space provided below. Please show all work. [4 marks]



7. Let a = 0.75, $b = -\frac{1}{2}$, and $c = \frac{1}{8}$. Evaluate the expression and show all of your steps! [4 marks] $ab^2 - c$