Math 90 Rational Numbers Review

- 1. Write each number as a rational number in simplest fraction form.
 - a) $1\frac{7}{9}$

b) -3

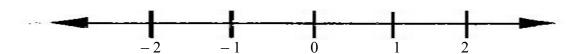
c) -0.725

- d) 0.36
- 2. Place the numbers below on the number line.
 - a) $\frac{3}{11}$

b) $\frac{-7}{3}$

c) $\frac{-4}{9}$

d) $\frac{12}{7}$



- 3. Use the symbols \leq , \geq , or = to make each statement true.
 - a) $\frac{3}{8}$ $\frac{4}{7}$

- $\frac{-5}{13}$ $\frac{-4}{11}$
- 4. List the integers that are between $\frac{-13}{4}$ and $\frac{8}{3}$. (1)
- 5. Give an example of a rational number in fraction form between $\frac{11}{13}$ and $\frac{12}{13}$ (1)
- 6. On a cold winter Monday in Calgary, the temperature reached a high of -12.5 °C. On Tuesday, the high went up by 4.3 °C. On Wednesday, it went down 11.7 °C. On Thursday, it went up by 9.1 °C. On Friday, it cooled down by 3.9 °C. What was the high temperature on Friday?

(4)

(4)

(2)

7.	A submarine was cruising at a depth of 172 m. It then started to rise toward the surface at a rate of 0.08 m/s for 15 min. (Show your work)
	a) Determine the depth of the submarine after 15 min.
	(2)
	b) After the submarine has reached its depth in part a), it slows down its ascent to 0.05 m/s, how long will it take to reach the surface?
	(2)
8.	Determine the mean of the numbers listed below. (Show your work)
	0.8, -1.5, 3.6, 4.7, -2.4
	(1)
9.	Combined, the Pacific Ocean, the Atlantic Ocean, and the Indian Ocean cover about $\frac{7}{10}$ of
	the surface of the earth. The Pacific Ocean alone covers approximately $\frac{1}{3}$ and the Atlantic
	Ocean alone covers approximately $\frac{1}{5}$. What fraction does the Indian Ocean cover?
	(Show your work)
	(2)
10.	Cory divided half a watermelon equally between himself and seven friends. What fraction of a watermelon did each person receive? (Show your work) (2)
11.	One morning at school, $\frac{9}{10}$ of the students in a class arrived before the bell rang and $\frac{1}{15}$
	arrived after the bell rang. What fraction of the class was present that day? (Show your work)
	(2)
12	Of the 40 core in a powlying let 2 have true doors. If 3 of the set true doors are 1 to 1 t
12.	Of the 48 cars in a parking lot, $\frac{2}{3}$ have two doors. If $\frac{3}{4}$ of those two door cars are hybrids,
	how many of the cars in the lot are two door hybrids? (Show your work)

Name: _____

Math 90 Rational Numbers – Estimation Review No Calculators

1. Estimate the following results. (Do NOT calculate the answer!!!) (Show your work)

a)
$$0.8 + 1.479 + 3.64 + 2.27$$

c)
$$368.129 \times 74.632$$

e)
$$\frac{18}{5} + \frac{23}{7} + \frac{10}{9}$$

f)
$$\frac{42}{5} \times \frac{19}{8}$$