

Name: _____

Date: _____

SENIOR 1 MATH QUIZ RATIONAL NUMBERS

1. To which number system(s) does each number belong?

a) 87 _____ b) - 0.5 _____

c) $\frac{3}{4}$ _____ d) 8 _____

e) -2 _____ f) .3 _____

g) 1 _____ h) - 3 _____

2. Give an example of:

a) an integer that is not a whole number _____

b) a whole number that is not a natural number _____

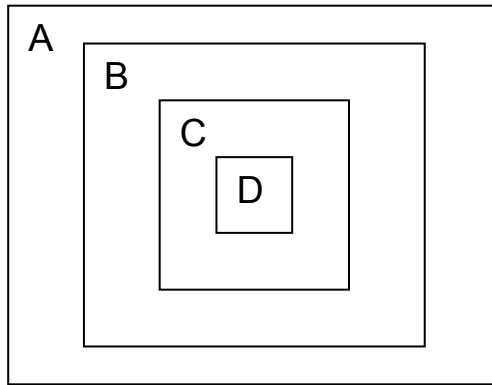
c) an integer that is not a natural number _____

3. Is each statement true or false.

a) All numbers are whole numbers _____

b) All rational numbers are natural numbers _____

4. State the number system represented by each letter in the diagram: rational numbers, natural numbers, whole numbers and integers.



- A) _____
- B) _____
- C) _____
- D) _____

5. Express each in lowest terms.

a) $\frac{5}{10} =$ _____

b) $-\frac{2}{4} =$ _____

6. Use $>$, $<$ or $=$ to make each statement true. Show your work.

a) $-2\frac{1}{5}$ $-\frac{9}{5}$

7. Express each mixed number as an improper fraction.

a) $1\frac{1}{2} =$ _____

b) $2\frac{4}{5} =$ _____

8. Express each improper fraction as a mixed number.

a) $\frac{3}{2} =$ _____

b) $\frac{4}{3} =$ _____

9. Solve. (3 marks each – Show all work)

a) $(1\frac{1}{2} - \frac{1}{4}) \times \frac{1}{2}$

b) $1.3 - 4 \div 2 \times .5$