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**MATHEMATICS WORKSHEET NO. 3**

**Class:** 8___ Name: _____ Date: _____

**Topic:** Rational Numbers

A- Order and compare rational numbers.

B- Apply four operations on rational numbers.

1-   Evaluate:

a)   $1\frac{3}{5} \div 2\frac{1}{3}$

f)   $3\frac{2}{3} + 6\frac{2}{5}$

b)   $\dfrac{0.64}{0.008}$

g)   $5.6 \div 0.02$

h)   $0.105 \times 0.2$

c)   $2\frac{2}{3} \times 1\frac{1}{5}$

d)   $7\frac{1}{4} - 6\frac{2}{3}$

i)   $1.5 - 0.2 \times 4$

e)   $\frac{2}{5} \, of \, \frac{15}{16}$

j)   $\dfrac{1.3+2.9}{0.2}$

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2-    Find the decimal number which is exactly halfway between 4.7 and 5.0.

3-    Which of the following numbers are irrational:
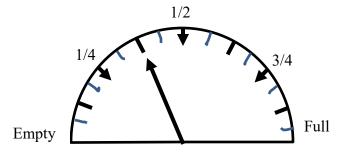$$\sqrt{2} \times \sqrt{8}, \qquad \frac{22}{7}, \qquad \pi, \qquad 2\sqrt{3}$$

4-    Write down the following numbers in order, starting with the smallest.
   $a)$    $-0.18, \quad -1.3, \quad 0, \quad -0.2, \quad -5$

   $b)$    $\dfrac{66}{100} \quad 0.6 \quad 0.67 \quad \dfrac{666}{1000}$

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5-    The diagram shows a fuel gauge in a car.
      a)  What fraction does the gauge show?
      b)  The fuel tank holds 48 litres when it is full.
          How many litres must be added to fill the tank?

1/2

1/4

3/4

Empty

Full