Q1.Using appropriate properties find:

$$\frac{-2}{3} \times \frac{3}{5} + \frac{5}{2} - \frac{3}{5} \times \frac{5}{2} \times \frac{1}{6}$$

(ii)
$$\frac{2}{5}$$
 x $\left(-\frac{3}{7}\right)$ - $\frac{1}{6}$ x $\frac{3}{2}$ + $\frac{1}{14}$ x $\frac{2}{5}$

Q2. Write the additive inverse of each of the following:

(i)
$$\frac{2}{3}$$

(ii)
$$\frac{-5}{9}$$

(iii)
$$\frac{-6}{-5}$$

(iv)
$$\frac{2}{-9}$$

(v)
$$\frac{19}{-6}$$

Q3. Verify that : -(-X) = X for.

(i)
$$X = \frac{11}{15}$$
 (ii) $\frac{-13}{17}$

(ii)
$$\frac{-13}{17}$$

Q4. Find the multiplicative inverse of the following:

(ii)
$$\frac{-13}{19}$$

(iii)
$$\frac{1}{5}$$

(iv)
$$-\frac{5}{8}x\frac{-3}{7}$$

(v)-1 x
$$\frac{-3}{7}$$

Q5. Name the property under multiplication used in each of the following.

(i)
$$\frac{-4}{5}$$
 x 1 = 1 x $\frac{-4}{5}$ = $\frac{-4}{5}$

(ii)
$$-13/17 \times -2/7 = -2/7 \times -13/17$$

(iii)
$$-19/29 \times 29/-19 = 1$$

Q6. Multiply 6/13 by the reciprocal of -7/16.

Q7.Tell what property allows you to compute

$$1/3 \times 6 \times 4/3$$
 as $1/3 \times 6 \times 4/3$

Q8. Is 8/9 the multiplicative inverse of - $1\frac{1}{8}$? why or why not?

Q9.Is 0.3 the multiplicative inverse of $3\frac{1}{3}$? why or why not?

Q10. Write.

- (i) The rational number that does not have a reciprocal.
- (ii) The rational numbers that are equal to their reciprocals.
- (iii) The rational number that is equal to its negative.

Q11.Fill in the blanks.

- (i)Zero has _____reciprocal.
- (ii)The numbers_____and___are their own reciprocals
- (iii) The reciprocal of 5 is _____.
- (iv) Reciprocal of $1/\underline{x}$, where $x \neq 0$ is _____.
- (v)The product of two rational numbers is always a_____.
- (vi)The reciprocal of a positive rational number is_____.