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MATHEMATICS

CH: 7 : RATIONAL NUMBERS

Name: _____ Date:_____ Class: VII Sec: ___

Q.1. State true or false:

(i) $\frac{-7}{-9}$ and $\frac{7}{9}$ are positive rational numbers.

(ii) All fractions are rational numbers.

(iii) A rational number can be a natural number.

(iv) Rational number $\frac{1}{7}$ is in the lowest form, but $\frac{7}{1}$ is not in the lowest form.

(v) If x and y are two given rational numbers such that x<y, then (x – y) is always a negative rational number.

Q.2. Fill in the blanks:-

(i) The number $\frac{-3}{10}$ lies to the_____of 0 on the number line.

(ii) Rational numbers are number which can be expressed in the form of $\frac{p}{q}$ such that p and q are_____and q ≠ 0.

(iii) $\frac{48}{-144}$ in its lowest form is _____

(iv) $\frac{17}{-4}$ as a rational number with numerator –85 is_____.

(v) $\frac{-2}{-3} = \frac{\square}{18} = \frac{14}{\square} = \frac{18}{\square}$

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Q.3. Write 3 rational numbers equivalent to:

$\frac{4}{-15} = $ _____

Q.4. Find any three rational numbers between $\frac{-1}{3}$ and $\frac{1}{3}$

Q.5. Compare which is greater:

(i) $\frac{3}{-14}$ or $\frac{-5}{21}$

(ii) $\frac{-5}{9}$ or $\frac{11}{16}$

Q.6. Do as directed:

$\left(\frac{21}{9}\times\frac{3}{7}\right)-\left(\frac{7}{8}\times\frac{16}{14}\right)$

(ii) $\frac{-8}{15} - \frac{16}{3}$

(iii) $2+\frac{-1}{2}+\frac{-3}{4}$

(iv) $\left(\frac{-16}{35}\right)\div\left(\frac{-15}{14}\right)$

Q.7. The sum of two rational numbers is −10. If one of the rational number is the other number.

Q.8. Fill in the blanks with correct symbol out of >, = and < :–

(i) $\frac{-3}{7} \square \frac{6}{-13}$

(ii) $\frac{5}{13} \square \frac{-35}{91}$

(iii) $-2 \square \frac{-13}{5}$

(iv) $0 \square \frac{-3}{-5}$

(v) $\frac{-8}{-9} \square \frac{-9}{10}$

Q.9. What should be added to $\left(\frac{1}{2}+\frac{1}{3}+\frac{1}{5}\right)$ to get 3?

Q.10 What should be subtracted from $\left(\frac{3}{4}+\frac{2}{3}\right)$ to get $\frac{-1}{6}$?

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