

BAL BHARATI PUBLIC SCHOOL(GRHM)

CLASS VII

MATHEMATICS

Summative Assessment –I

Assignment No- 5

Chapter -3. Rational Numbers.

Q1) The expression which best describes the rational no. $\frac{0}{3}$ is:

- a)0 b)1 c)3 d) none of these.

Q2)The additive inverse of $\frac{-3}{7}$ is:

- a) $\frac{7}{-3}$ b) $\frac{4}{-3}$ c) $\frac{-4}{3}$ d) $\frac{-24}{18}$

Q3)The product of rational no. $\frac{3}{4}$ and its multiplicative inverse is:

- a)1 b)0 c) $\frac{3}{4}$ d) $\frac{9}{16}$

Q4) The value of $|-2 - (-\frac{3}{4})|$ is:

- a) $\frac{-5}{4}$ b) $\frac{5}{4}$ c) $\frac{11}{4}$ d) none of these.

Q5)The sum of rational no. $\frac{3}{7}$ and its reciprocal is:

- a)0 b)1 c) $\frac{7}{12}$ d) $\frac{58}{21}$

Q.6 Express $\frac{7}{4}$ as a rational number with denominator :- (a) -16 (b) 24

Q.7 Express $\frac{5}{11}$ as a rational number with numerator (a) -25 (b) 625

Q.8 Reduce the following rational numbers to the standard form.

$$(a) \frac{14}{-32} \quad (b) \frac{63}{135} \quad (c) -\frac{52}{143} \quad (d) \frac{-48}{72}$$

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Q.9 Write 3 equivalent rational numbers of : a) $\frac{-7}{8}$ b) $\frac{-3}{-4}$

Q.10 Represent the following rational numbers on the number line

$$(a) \frac{-4}{5} \qquad (b) \frac{9}{4}$$

Also write the nearest integers between which each of them lies.

Q.11 Arrange each of the following in descending order.

$$\frac{4}{7}, \frac{4}{9}, \frac{8}{5}, \frac{-18}{5}$$

Q.12 Simplify :

$$(a) \frac{15}{11} + \frac{-25}{11}$$

$$(b) \frac{-1}{2} + \frac{5}{12}$$

$$(c) \frac{-5}{7} + \frac{-4}{9}$$

$$(d) \frac{13}{4} + \frac{25}{9}$$

$$(e) \frac{21}{11} + \frac{-13}{8}$$

$$(f) \frac{3}{4} + \frac{5}{6} + \frac{7}{8}$$

$$(g) \frac{2}{3} + \frac{3}{4} - \frac{5}{12} - \frac{1}{8}$$

$$(h) \frac{3}{8} \times \frac{16}{27}$$

$$(i) \frac{-13}{19} \times \frac{-4}{13}$$

$$(j) 3\frac{5}{13} - 1\frac{1}{2}$$

Q.13 Subtract :- a) $\frac{3}{16}$ from $\frac{-5}{8}$ b) $\frac{-5}{12}$ from 2

Q.14 Divide : a) $\frac{2}{5}$ by $\frac{-7}{25}$ b) $-5\frac{4}{9}$ by $1\frac{22}{27}$

Q.15 Find 4 rational numbers between $\frac{-1}{2}$ and $\frac{1}{2}$

Q.16 The product of two rational numbers is $\frac{-11}{15}$. If one of them is 3 , find the other.

Q.17 The sum of two rational numbers is $\frac{-5}{8}$ If one of them is $\frac{-2}{3}$,find the other.

Q.18 Simplify: $2\frac{1}{4} + 5\frac{5}{8} \times 1\frac{1}{3} - 1\frac{3}{4} \div 1\frac{1}{2}$

Q19) Find a rational no. which in standard form is equal to $\frac{4}{5}$ and the sum of its numerator and denominator is 27.

Q20) Arrange each of the following in ascending order:-

a) $\frac{2}{5}$, $\frac{-1}{6}$, $\frac{5}{-12}$, $\frac{-11}{30}$

b) If you have to arrange health, wealth and character in ascending order of importance, arrange it according to your priority.