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

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) $\frac{-4}{5}$  
(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: $2 \frac{1}{4} + 5 \frac{5}{8} \times 1 \frac{1}{3} - 1 \frac{3}{4} \div 1 \frac{1}{2}$

Q.19 Find a rational no. which in standard form is equal to $\frac{4}{5}$ and the sum of its numerator and denominator is 27.

Q.20 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.