



Worksheet

Grade 8 - Mathematics

Chapter1- Rational Numbers

A. Choose the correct option.

1) Which among these rational numbers is the smallest?

- a) $\frac{2}{3}$ b) $\frac{-2}{3}$ c) $\frac{1}{3}$ d) $\frac{-1}{3}$

2) Value of $\frac{4}{0}$

- a) 4 b) 0 c) -4 d) not defined

3) Absolute value of $\left|\frac{-5}{8}\right|$

- a) $\frac{-5}{8}$ b) $\frac{5}{8}$ c) -5 d) 5

4) Which of the following pairs are equal?

- a) $\frac{-4}{8}, \frac{-1}{2}$ b) $\frac{-3}{9}, \frac{-1}{-3}$ c) $\frac{-5}{25}, \frac{1}{5}$ d) $\frac{-6}{36}, \frac{1}{6}$

5) The equivalent rational number of $\frac{-5}{6}$

- a) $\frac{15}{18}$ b) $\frac{-25}{-30}$ c) $\frac{-20}{-36}$ d) $\frac{-25}{30}$

6) Express the following in $\frac{a}{b}$ form.

- a) 5
b) -7
c) 0
d) -6

7) Check if the pairs of rational numbers $\frac{-4}{5}, \frac{-16}{20}$ are equivalent.

8) Express $\frac{-4}{11}$ and $\frac{2}{-7}$ with positive denominators.

9) Find the value of the following.

- a) $\frac{-2}{9} + \frac{5}{9}$
b) $\frac{7}{9} - \frac{-5}{9}$

c) $\frac{-7}{9} \times \frac{-5}{9}$

d) $\frac{7}{9} \div \frac{-7}{9}$

10) Express $\frac{6}{7}$ with the following denominators.

- a) 49 b) -56 c) 63

11) Fill in the box with <, = or > in the following.

a) $\frac{3}{5} \square \frac{2}{8}$

b) $\frac{-6}{13} \square \frac{5}{8}$

12) Write any three rational numbers between -4 and 3.

13) Write the rational number that is $\frac{1}{2}$ more than half of the smallest 3- digit number.

14) Write the following rational numbers in standard form.

a) $\frac{-43}{2}$

b) $\frac{8}{-32}$

c) $\frac{-45}{-9}$

d) $\frac{14}{35}$