

Question Bank

1. CHOOSE THE CORRECT ANSWER.

a. In a rational number $\frac{a}{b}$ which of the following is correct?

i. $b = 0$

ii. $a \neq 0$

iii. $b \neq 0$

iv. $b \neq a$

b. Which of the following is a rational number?

i. $\frac{0}{0}$

ii. $\frac{7}{0}$

iii. 0

iv. $\frac{\sqrt{3}}{6}$



c. Number 5 can be written as:

i. $\frac{1}{5}$

ii. $\frac{5}{1}$

iii. $\frac{5}{0}$

iv. $\frac{5}{-1}$

d. The absolute value of $\frac{-11}{17}$ is

i. $\frac{-11}{17}$

ii. $\frac{17}{-11}$

iii. $\frac{11}{-17}$

iv. $\frac{11}{17}$

e. The standard form of $\frac{-6}{24}$ is:

i. $\frac{-1}{4}$

ii. $\frac{6}{24}$

iii. 0

iv. $\frac{1}{4}$

e. Express $\frac{3}{8}$ with the following denominators:

i. 64

ii. 72

iii. -88

f. Express the following rational numbers in standard form:

i. $\frac{5}{-15}$

ii. $\frac{8}{64}$

iii. $\frac{-14}{-49}$

g. Write the absolute value of the following:

i. $\frac{-2}{12}$

ii. $\frac{4}{17}$

iii. $\frac{-3}{-23}$

h. Find the absolute value of the following:

i. $\left| \frac{1}{5} - \frac{1}{3} \right|$

ii. $\left| \frac{2}{9} + \frac{5}{7} \right|$

iii. $\left| \frac{1}{5} - \frac{1}{3} \right|$

iv. $\left| -6 \div \frac{18}{7} \right|$

v. $\left| \frac{-5}{11} - \frac{7}{8} \right|$

i. Fill in the blank with $<$, $=$ or $>$ in the following:

i. $\frac{-2}{5} \underline{\hspace{1cm}} \frac{8}{-20}$

ii. $\frac{4}{7} \underline{\hspace{1cm}} \frac{8}{15}$

iii. $\frac{9}{17} \underline{\hspace{1cm}} \frac{3}{15}$

j. Arrange in ascending order: $\frac{1}{4}, \frac{-3}{5}, \frac{4}{9}, \frac{7}{6}$

k. Arrange in descending order: $\frac{2}{3}, \frac{-3}{7}, \frac{1}{2}, \frac{7}{8}$

2. ANSWER THE FOLLOWING.

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

i. 6

ii. -15

iii. 0

b. Fill in the blanks:

i. $\frac{-2}{7} = \frac{?}{21} = \frac{?}{56}$

ii. $\frac{3}{8} = \frac{?}{48} = \frac{?}{80}$

c. Check if the following pairs of rational numbers are equivalent:

i. $\frac{-3}{4}, \frac{-18}{24}$

ii. $\frac{13}{16}, \frac{29}{49}$

d. Express the following with positive denominators:

i. $\frac{4}{-9}$

ii. $\frac{-1}{-5}$