



QUESTION BANK: GRADE: 8

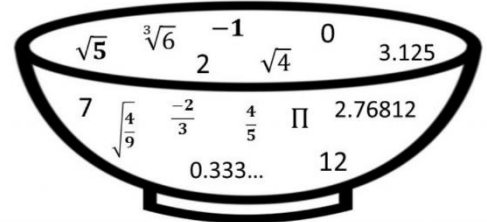
SUBJECT: MATHEMATICS

CHAPTER 2: OPERATIONS ON RATIONAL NUMBERS

A. Choose the correct answer

- The additive inverse of $\frac{7}{5}$ is
(a) 1 (b) 0 (c) $-\frac{7}{5}$ (d) $\frac{7}{5}$
- The sum of the rational numbers $\frac{-5}{16}$ and $\frac{7}{12}$ is
(a) $\frac{-7}{48}$ (b) $\frac{-11}{30}$ (c) $\frac{13}{48}$ (d) $\frac{1}{3}$
- _____ is the multiplicative identity for rational numbers.
(a) 1 (b) 0 (c) -1 (d) $\frac{1}{2}$

A. From the bowl of numbers, pick a number and write them under the rational or irrational box.



Rational Numbers		Irrational Numbers	

B. Following 3 questions carry 2 marks each.

- The sum of two rational numbers is $\frac{-1}{2}$. If one of the numbers is $\frac{5}{6}$, find the other.
- Simplify: $\frac{-4}{5} \times \frac{3}{7} \times \frac{15}{16} \times \left(\frac{-14}{9}\right)$
- Find using distributive property: $\left\{\frac{7}{5} \times \left(\frac{-3}{12}\right)\right\} + \left\{\frac{7}{5} \times \frac{5}{12}\right\}$

C. Following 2 questions carry 3 marks each.

- Divide the sum of $\frac{13}{5}$ and $\frac{-12}{7}$ by the product of $\frac{-31}{7}$ and $\frac{-1}{7}$.
- The product of two rational numbers is $\frac{-16}{9}$. If one of the numbers is $\frac{-4}{3}$, find the other.

ANSWER KEY

- A. 1. c 2. c 3. a
B. 1. $-\frac{8}{6}$ 2. $\frac{1}{2}$ 3. $\frac{7}{30}$
C. 1. $\frac{2}{5}$ 2. $\frac{4}{3}$