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CLASS: VIII

SUB.: MATHS (NCERT BASED)

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RATIONAL NUMBERS (REVISION)

1. An integer can be:

A. Only Positive

B. Only Negative

C. Both positive and negative

D. None of the above

Answer: C

Explanation: An integer can be both positive and negative as well as zero.

2. A rational number can be represented in the form of:

A. p/q

B. pq

C. $p+q$

D. $p-q$

Answer: A

Explanation: A rational number can be represented in the form p/q where p and q are integers and q is not equal to zero.

3. The value of $\frac{1}{2} \times \frac{3}{5}$ is equal to:

A. $\frac{1}{2}$

B. $\frac{3}{10}$

C. $\frac{3}{5}$

D. $\frac{2}{5}$

Answer: B

Explanation: $\frac{1}{2} \times \frac{3}{5} = \frac{(1 \times 3)}{(2 \times 5)} = \frac{3}{10}$

4. The value of $(\frac{1}{2}) \div (\frac{3}{5})$ is equal to:

A. $\frac{3}{10}$

B. $\frac{3}{5}$

C. $\frac{6}{5}$

D. $\frac{5}{6}$

Answer: D

Explanation: $(\frac{1}{2}) \div (\frac{3}{5}) = (\frac{1}{2}) \times (\frac{5}{3}) = \frac{(1 \times 5)}{(2 \times 3)} = \frac{5}{6}$

5. The value of $\frac{1}{2} + \frac{1}{4}$ is equal to:

A. $\frac{3}{4}$

B. $\frac{3}{2}$

C. $\frac{2}{3}$

D. 1

Answer: A

Explanation: $\frac{1}{2} + \frac{1}{4}$

Making the denominator equal:

$$\frac{2}{4} + \frac{1}{4} = \frac{(2+1)}{4} = \frac{3}{4}$$

6. The value of $5/4 - 8/3$ is:

A. $17/12$

B. $-17/12$

C. $12/17$

D. $-12/17$

Answer: B

Explanation: $5/4 - 8/3$

Making the denominator equal:

$$[(5/4) \times (3/3)] - [(8/3) \times (4/4)]$$

$$15/12 - 32/12$$

$$= (15-32)/12 = -17/12$$

7. The associative property is applicable to:

A. Addition and subtraction

B. Multiplication and division

C. Addition and Multiplication

D. Subtraction and Division

Answer: C

Explanation: As per associative property:

$$A+B = B+A$$

$$A.B = B.A$$

Where A and B are two integers.

8. The value of $(-10/3) \times (-15/2) \times (17/19) \times 0$ is:

A. 0

B. 22.66

C. 20

D. 35

Answer: A

Explanation: Any number multiplied by zero is equal to zero.

9. The additive identity of rational numbers is:

A. 0

B. 1

C. 2

D. -1

Answer: A

Explanation: Any number added to zero is equal to the number itself.

$$\text{Ex: } 5+0 = 5$$

10. The multiplicative identity of rational numbers is:

A. 0

B. 1

C. 2

D. -1

Answer: B

Explanation: Any number multiplied by 1 is equal to the number itself

$$\text{Ex: } 5 \times 1 = 5$$