

Chapter: 2

Q.1 A) Choose the correct alternative. (2)

1)

Simplify $3\sqrt{7} + 5\sqrt{7} - 2\sqrt{7}$

- a. $\sqrt{7}$ b. $6\sqrt{7}$ c. $-6\sqrt{7}$ d. -6

2) $m \times (n \times o) = (m \times n) \times o$ is property of rational numbers.

- a. Commulative b. Inverse c. Identity d. Associative

B) Solve the following questions. (2)

1)

Rationalize the denominator : $\frac{3}{\sqrt{5}}$

2) Classify the given pair of surds into like surds and unlike surds.

$5\sqrt{5}, \sqrt{75}$

Q.2 A) Complete the following Activities. (Any one) (2)

1)

Write the following numbers in its decimal form. $\frac{9}{11}$

$$\frac{9}{11} = \underline{\hspace{2cm}} \dots\dots$$

$$\frac{9}{11} = \underline{\hspace{2cm}}$$

2) Simplify.

$$7\sqrt{48} - \sqrt{27} - \sqrt{3}$$

solution:

$$= \underline{\hspace{2cm}} - \sqrt{9 \times 3} - \sqrt{3}$$

$$= 28\sqrt{3} - \underline{\hspace{2cm}} - \sqrt{3}$$

$$= \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}}$$

B) Solve the following questions. (Any two) (4)

- 1) Multiply and write the answer in the simplest form.

$$3\sqrt{8} \times \sqrt{5}$$

2)

$$\text{Solve : } \left| \frac{8-x}{2} \right| = 5$$

- 3) Write the decimal expansion of each of the following numbers and say what kind of decimal expansion each has: $\frac{2}{9}$

Q.3 Solve the following questions. (Any one)

(3)

1)

Write the following numbers in its decimal form. $\frac{29}{8}$

2)

Write the simplest form of rationalizing factor for the given surds : $\frac{3}{5}\sqrt{10}$

Q.4 Solve the following questions. (Any one)

(4)

1)

Represent the numbers $\sqrt{5}$ on a number line.

2)

Represent the number $\sqrt{10}$ on a number line.

Q.5 Solve the following questions. (Any one)

(3)

1)

Write the simplest form of rationalizing factor for the given surds : $\sqrt{32}$

2)

Rationalize the denominator : $\frac{1}{3\sqrt{5}+2\sqrt{2}}$