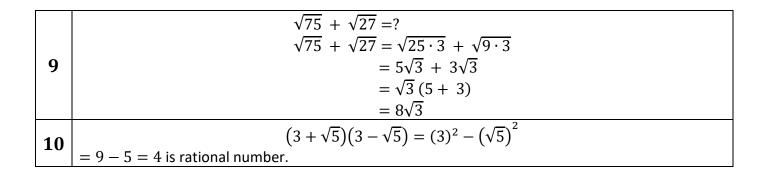
Real Numbers Unit1

| Sr. No. | Questions | A | В | С | D |
|------------|--|------------------------|----------------------|-----------------------|------------------------|
| 1 | $\sqrt{7}$ is: | integer | rational number | irrational number√ | natural number |
| 2 | π and e are: | natural numbers | integers | rational numbers | irrational numbers√ |
| 3 | If n is not a perfect square, then \sqrt{n} is: | rational number | natural number | integer | irrational number√ |
| 4 | $\sqrt{5} + 5$ is: | whole number | integer | rational number | irrational number√ |
| 5 | For all $x \in R$, $x = x$ is called: | reflexive property√ | transitive number | symmetric property | trichotomy property |
| 6 | Let $a, b, c \in R$, then $a > b$ and $b > c \Rightarrow a > c$ is called property: | trichotomy | transitive√ | additive | multiplicative |
| 7 | $2^x \times 8^x = 64 \text{ then } x =$ | $\frac{3}{2}$ | $\frac{3}{4}$ | <u>5</u> 6 | $\frac{2}{3}$ |
| 8 | Let $a,b,c \in R$, then $a=b$ and $b=a$ is called property: | reflexive | symmetric√ | transitive | additive |
| 9 | $\sqrt{75} + \sqrt{27} =$ | $\sqrt{102}$ | 9√3 | $5\sqrt{3}$ | 8√3✓ |
| 10 | The product of $(3 + \sqrt{5})(3 - \sqrt{5})$ is: | prime number | odd number | irrational number | rational number√ |

Solution of MCQs

| 1 | $\sqrt{7}$ is irrational since it cannot be written as $\frac{p}{q}$. | | | | |
|---|---|--|--|--|--|
| 2 | π and e are famous examples of irrational numbers. | | | | |
| 3 | \sqrt{n} is irrational when n is not a perfect square. | | | | |
| 4 | Rational + Irrational = Irrational $\Rightarrow \sqrt{5} + 5$ is irrational. | | | | |
| 5 | x = x for all real x is the reflexive property. | | | | |
| 6 | $a > b$ and $b > c \Rightarrow a > c$ is transitive property. | | | | |
| 7 | $2^{x} \times 8^{x} = 64$ $2^{x} \times (2^{3})^{x} = 64$ $2^{x} \times 2^{3x} = 64$ $2^{x+3x} = 2^{6}$ $\Rightarrow x + 3x = 6$ $4x = 6$ $x = \frac{6}{4}$ $x = \frac{3}{2}$ | | | | |
| 8 | If $a = b \Longrightarrow b = a$ is called is symmetric property. | | | | |

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