Codeyoung

Concept_Grade-9_Real Numbers

Irrational Numbers

1. Identify an irrational number among the following numbers : 0.13, $0.13\overline{15}$, $0.\overline{1315}$, 0.3013001300013 ...

2. Is the product of two irrational numbers always a irrational number?

3. Write the sum of $2\sqrt{5}$ and $3\sqrt{7}$.

4. Calculate the irrational number between 2 and 2.5.

5. Simplify the number $\left(\sqrt{2}+\sqrt{5}\right)^2$

6. Find any two irrational numbers between 0.1 and 0.12

7. Find any two irrational numbers between 0.5 and 0.55

8. Find an irrational number between $\frac{1}{7}$ and $\frac{2}{7}$ when it is given that $\frac{1}{7} = 0.\overline{142857}$

9. Find three irrational numbers between $\frac{5}{7}$ and $\frac{9}{11}$

10. Examine whether $\sqrt{2}$ is rational or irrational.

11. Give an example of two irrational numbers whose:
    (i) difference is an irrational number,
    (ii) sum is an irrational number,
    (iii) product is an irrational number,
    (iv) division is an irrational number.
    Justify also.