

NUMBER SYSTEM**CONVERSION OF RATIONAL NUMBERS INTO DECIMAL
EXERCISE**

- Q.1 Convert $\frac{35}{16}$ into decimal form by long division method.
- Q.2 Express $\frac{2157}{625}$ in the decimal form.
- Q.3 Express $\frac{-17}{8}$ in decimal form by long division method.
- Q.4 Find the decimal representation of $\frac{8}{3}$.
- Q.5 Express $\frac{2}{11}$ as a decimal fraction.
- Q.6 Find the decimal representation of $\frac{-16}{45}$
- Q.7 Find the decimal representation of $\frac{22}{7}$.
- Q.8 Express the rational number $\frac{1}{27}$ in recurring decimal form by using the recurring decimal expression of $\frac{1}{3}$. Hence write $\frac{59}{27}$ in recurring decimal form.
- Q.9 Express $\frac{1}{37}$ in decimal form and hence write the decimal expansion of $\frac{79}{37}$.
- Q.10 By taking $\pi = 3.141$ and $\sqrt{2} = 1.414$, evaluate $\frac{2\pi + 3\sqrt{2}}{5}$ upto three places of decimals.

ANSWER KEY

1. $\frac{35}{16} = 2.1875$

2. $\frac{2157}{625} = 3.4512$

3. $\frac{-17}{8} = -2.125$

4. $\frac{8}{3} = 2.6666 \dots = 2.\bar{6}$

5. $\frac{2}{11} = 0.181818 \dots = 0.\bar{18}$

6. $\frac{-16}{45} = -0.3\bar{5}$

7. $\frac{22}{7} = 3.142857142857 \dots = 3.\overline{142857}$

8. $00\overline{372185}$

9. $00\overline{272135}$

10. 2.105 (approx)