NUMBER SYSTEMS

CONVERSION OF DECIMAL NUMBER INTO RATIONAL OF THE FORM P/Q

EXERCISE

Q.1 Convert the following decimal numbers in the form $\dfrac{p}{q}$:

(i) $5.\overline{2}$ (ii) $23.\overline{43}$

Q.2 Express the following decimals in the form

(i) $0.\overline{32}$ (ii) $0.1\overline{23}$

Q.3 Express each of the following mixed recurring decimals in the form $\dfrac{p}{q}$;

(i) $4.\overline{32}$ (ii) $15.\overline{712}$

Q.4 Express the decimal $0.00\overline{32}$ in the form $\dfrac{p}{q}$

Q.5 Express the following in the form of p/q.

(i) $.\overline{3}$ (ii) $\overline{37}$

Q.6 Express in $\dfrac{p}{q}$ form

(i) $2.\overline{124}$,   (ii) $0.2\overline{37}$

ANSWER KEY

1. (i) $\dfrac{47}{9}$ (ii) $\dfrac{2320}{99}$

2. (i) $\dfrac{29}{90}$ (ii) $\dfrac{37}{300}$

3. (i) $\dfrac{389}{90}$ (ii) $\dfrac{1037}{66}$

4. $\dfrac{349}{99000}$

5. (i) $\dfrac{1}{3}$ (ii) $\dfrac{37}{99}$

6. (i) $\dfrac{2122}{999}$ (ii) $\dfrac{47}{198}$