Exercise 3D

(i) $16.46 \div 20 = \frac{16.46}{20} = \frac{16.46 \times 100}{20 \times 100} = \frac{1646}{2 \times 1000} = \frac{823}{1000} = 0.823$

(ii) $403.8 \div 30 = \frac{403.8}{30} = \frac{403.8 \times 10}{30 \times 10} = \frac{4038}{3 \times 100} = \frac{1346}{100} = 13.46$

(iii) $19.2 \div 80 = \frac{19.2}{80} = \frac{19.2 \times 10}{80 \times 10} = \frac{192}{800} = \frac{192}{8 \times 100} = \frac{24}{100} = 0.24$

(iv) $156.8 \div 200 = \frac{156.8}{200} = \frac{156.8 \times 10}{200 \times 10} = \frac{1568}{2000} = \frac{784}{1000} = 0.784$

(v) $12.8 \div 500 = \frac{12.8}{500} = \frac{12.8 \times 10}{500 \times 10} = \frac{128}{5000} = \frac{25.6}{1000} = 0.0256$

(vi) $18.08 \div 400 = \frac{18.08}{400} = \frac{18.08 \times 100}{400 \times 100} = \frac{1808}{40000} = \frac{452}{10000} = 0.0452$

Q7

Answer :

(i) $3.28 \div 0.8 = \frac{3.28}{0.8} = \frac{3.28 \times 10}{0.8 \times 10} = \frac{32.8}{8}$

Now, we have:

$$
\begin{array}{r|l}
8 & 32.8 \\
\underline{-32} & \\
\times 8 & \\
\underline{-8} & \\
\times &
\end{array}
\quad 4.1
$$

$\therefore \frac{3.28}{0.8} = \frac{32.8}{8} = 4.1$

(ii) $0.288 \div 0.9 = \frac{0.288}{0.9} = \frac{0.288 \times 10}{0.9 \times 10} = \frac{2.88}{9}$

Now, we have:

$$
\begin{array}{r|l}
9 & 2.88 \\
-0 & \\
\hline
28 & \\
-27 & \\
\hline
18 & \\
-18 & \\
\hline
\times &
\end{array}
\quad 0.32
$$

$$\therefore \frac{0.288}{0.9} = \frac{2.88}{9} = 0.32$$

(iii) $25.395 \div 1.5 = \frac{25.395}{1.5} = \frac{25.395 \times 10}{1.5 \times 10} = \frac{253.95}{15}$

Now, we have:

$$
\begin{array}{r|l}
15 & 253.95 \\
-15 & \\
\hline
103 & \\
-90 & \\
\hline
139 & \\
-135 & \\
\hline
45 & \\
-45 & \\
\hline
\times &
\end{array}
\quad 16.93
$$

$$\therefore \frac{25.395}{1.5} = \frac{253.95}{15} = 16.93$$

(iv) $2.0484 \div 0.18 = \frac{2.0484}{0.18} = \frac{2.0484 \times 100}{0.18 \times 100} = \frac{204.84}{18}$

Now, we have:

********** END **********