

# Decimal fractions

Ex-4(A)

(i)  $3.75 = \frac{75}{100} = \frac{3}{4}$

$$\frac{75}{100} = \frac{3}{4}$$

(ii)  $0.5 = \frac{5}{10} = \frac{1}{2}$

$$\frac{5}{10} = \frac{1}{2}$$

(iii)  $0.04 = \frac{4}{100} = \frac{1}{25}$

$$\frac{4}{100} = \frac{1}{25}$$

(iv)  $0.65 = \frac{65}{100} = \frac{13}{20}$

$$\frac{65}{100} = \frac{13}{20}$$

(v)  $2.405 = \frac{405}{1000} = \frac{81}{200}$

$$\frac{405}{1000} = \frac{81}{200}$$

(vi)  $0.085 = \frac{85}{1000} = \frac{17}{200}$

$$\frac{85}{1000} = \frac{17}{200}$$

(vii)  $0.79 = \frac{79}{100}$

$$\frac{79}{100}$$

2(i)  $2\frac{4}{5} = 2 + \frac{4}{5} = 2 + \frac{4 \times 20}{5 \times 20} = 2 + \frac{80}{100} = 2.80$

~~$\frac{4}{5} = \frac{4 \times 20}{5 \times 20} = \frac{80}{100}$~~

(ii)  $79 = \frac{79}{1} = \frac{79 \times 100}{1 \times 100} = \frac{7900}{100} = 79.00$

$$\frac{79}{1} = \frac{7900}{100}$$

$$2 + \frac{4}{5} = \frac{4 \times 20}{5 \times 20} = \frac{80}{100}$$

$$= 2 + 0.80 = 2.80$$

(iv)  $\frac{7543}{10^4}$

(iii)  $\frac{37}{10,000} = 0.0037$

$$10^4 = 10 \times 10 \times 10 \times 10 = 10,000$$

$$\frac{7543}{10,000} = 0.7543$$

(v)  $\frac{3}{4} = \frac{3 \times 25}{4 \times 25} = \frac{75}{100} = 0.75$

(vi)  $\frac{93}{5}$

(vii)  $\frac{85}{8} = \frac{8 \times 25}{8 \times 25} = \frac{625}{1000} = 0.625$

$$= 0.625 + 8 = 8.625$$

$$\frac{3}{5} = \frac{3 \times 2}{5 \times 2} = \frac{6}{10} = 0.6 + 9 = 9.6$$

(viii)  $\frac{7}{8}$

$$\frac{7}{8} = \frac{7 \times 125}{8 \times 125} = \frac{875}{1000}$$

$$= 0.875 + 5 = 5.875$$

3. (i) 10,000

(v) 100

(ii) 10,000

(vi) 10,00,000

(iii) 100

(iv) 10

- (i) Zeropoint Four, Zero point Nine, Zeropoint One
- (ii) One point Nine, Four point Four, Seven point Four
- (iii) Zero point Zero Two, Zeropoint Five Six, Thirteen point Zero Six.
- (iv) Zero point Zero Zero Five, Zeropoint Two Zero Seven, ~~One~~ One hundred ~~One~~ point Five One Nine
- (v) Zero point Eight, Zeropoint Zero Zero Eight, Zero point Zero Zero Eight, Zero point Zero Zero Zero Eight.
- (vi) Two Hundred Fifty Six point One, Ten point Two Six, Zeropoint Six Three four.

Ex 1.1

(i) 0.5, 3.62, 43.981, 232.0037

$$= \frac{5}{10}, \frac{362}{100}, \frac{43981}{1000}, \frac{2320037}{10000}$$

$$2 \frac{1}{10}, 100, 1000, 10000$$

$$5 \frac{1}{5}, 50, 500, 5000$$

$$2 \frac{1}{1}, 10, 100, 1000$$

$$5 \frac{1}{5}, 5, 50, 500$$

$$2 \frac{1}{1}, 1, 10, 100$$

$$5 \frac{1}{1}, 5, 50 = 10,000$$

$$2 \frac{1}{1}, 1, 10$$

$$1 \frac{1}{1}, 1, 5$$

$$\frac{5}{10} = \frac{5 \times 1000}{10 \times 1000} = \frac{5000}{10000}$$

$$\frac{362}{100} = \frac{362 \times 100}{100 \times 100} = \frac{36200}{10000}$$

$$\frac{43981}{1000} = \frac{43981 \times 10}{1000 \times 10} = \frac{439810}{10000}$$

$$\frac{2320037}{10000} = \frac{2320037 \times 1}{10000 \times 1} = \frac{2320037}{10000}$$

# Ex 4(B)



$$(i) 0.5 + 0.37 = 0.42$$

$$(ii) 3.8 + 8.7 =$$

$$(iii) 0.02 + 0.008 + 0.309 = 0.337$$

$$(iv) 0.436 + 0.3195 + 0.52 = 1.2531$$

$$(v) 9.25 + 3.4 + 6.666 = 19.316$$

$$(vi) 3.007 + 0.587 + 18.341 = 21.935$$

$$(vii) 0.2 + 0.02 + 2.0002 = 0.2022$$

$$(viii) 6.08 + 60.8 + 0.608 + 0.0608 = 67.5488$$

$$(ix) 29.03 + 0.0003 + 0.3 + 7.2 = 29.3303$$

$$(x) 3.4 + 2.025 + 9.36 + 3.60201 = 42.73741$$

$$(i) 9.8 - 5.4 = 4.4$$

$$(ii) ~~5.3~~ 5.3 - 0.16 = 5.14$$

$$(iii) 8.6 - 0.82 = 7.78$$

$$(iv) ~~8.43~~ 8.43 - 0.07 = 8.36$$

$$(v) 9.2455 - 2.227 = 7.0185$$

$$(vi) ~~41.03~~ 59.46 - 41.03 = 18.43$$

$$(vii) 36.86 - 3.92 = 32.94$$

$$(viii) 8.5 - 4.83 = 3.67$$

$$(ix) 26.2 - 12.63 = 13.57$$

$$(x) ~~0.845~~ 3.71 - 0.845 = 2.865$$

$$(i) 28.796 - 13.47 - 2.555 = 12.771$$

~~28.796  
13.47  
- 2.555  
= 12.771~~

$$(ii) 93.354 - 62.82 - 13.045 = 17.489$$

$$(iii) 86 - 18.59 - 3.2 = 64.21$$

$$(iv) 86 + 16.95 - 3.0042 = 99.9458$$

$$(v) 32.8 - 13 - 10.725 + 3.517 = 12.592$$

$$(vi) 4000 - 30.51 - 753.101 - 69.43 = 3146.959$$

$$(i) 0.1835 + 163.2005 - 25.9 - 100 = 37.484$$

$$(ii) 38.00 - 30 + 200.200 - 0.230 = 207.97$$

$$(iii) 555.555 + 55.555 - 5.55 - 0.555 = 605.005$$

4. 
$$\begin{array}{r} 6.850 \\ - 0.685 \\ \hline 6.165 \end{array}$$

5.  $19.38 + 56.025 = 75.405$

$$\begin{array}{r} 200.11 \\ - 75.405 \\ \hline 124.705 \end{array}$$

6.  $13.95 + 1.003 = 14.953$   
 $2.794 + 6.2 = 8.994$   
 $14.953 - 8.994 = 5.959$

7.  $80.375 - 39.587 = 40.788$