Exercise 7.3

Q.1 Write each of the following as decimals.

(i) Five hundred twenty five and forty hundredths

(ii) Twelve and thirty five thousandths.

(iii) Fifteen and Seventeen thousandths.

(iv) Eighty eight and forty eight hundredths.

Solution: (i) ~~525~~ $525 + \frac{40}{100} = 525.40$

(ii) $12 + \frac{35}{1000} = 12.035$

(iii) $15 + \frac{17}{1000} = 15.017$

(iv) $88 + \frac{48}{100} = 88.48$

Q.2 Write each of the following as decimals:

(i) $137 + \frac{5}{100}$ (ii) $20 + 9 + \frac{4}{100}$

Sol (i) $137 + \frac{5}{100} = 1 \times 100 + 3 \times 10 + 7 \times 1 + 0 \times \frac{1}{10} + 5 \times \frac{1}{100}$

$= 137.05$

(ii) $20 + 9 + \frac{4}{100} = 2 \times 10 + 9 \times 1 + 0 \times \frac{1}{10} + 4 \times \frac{1}{100}$

$= 29.04$

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Q.3 Write each of the following as decimals.

(i) $\frac{8}{100}$ (ii) $\frac{300}{1000}$ (iii) $\frac{18}{1000}$

(iv) $\frac{208}{100}$ (v) $\frac{888}{1000}$

Solution: (i) $\frac{8}{100}$ = 8 hundredths = 0.08

(ii) $\frac{300}{1000}$ = Three hundred thousandths = 0.300

(iii) $\frac{18}{1000}$ = eighteen thousandths = 0.018

(iv) $\frac{208}{100}$ = Two hundred ~~light~~ hundredths = $\frac{200}{100} + \frac{8}{100}$

= 2.08

(v) $\frac{888}{1000}$ = 0.888

Q.4 Write each of the following as decimals.

(i) $12\frac{1}{4}$ (ii) $7\frac{1}{8}$ (iii) $5\frac{1}{20}$

Solution (i) $12\frac{1}{4} = 12 + \frac{1}{4} = 12 + \frac{1\times25}{4\times25} = 12 + \frac{25}{100}$

= 12.25

(ii) $7\frac{1}{8} = 7 + \frac{1}{8} = 7 + \frac{1\times125}{8\times125}$

$= 7 + \frac{125}{1000} = 7.125$

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(iii) $5\frac{1}{20} = 5+\frac{1}{20} = 5+\frac{1\times5}{20\times5}$

$= 5+\frac{5}{100} = 5.05$

Q.5 Write each of the following decimals as fractions. Reduce the fractions to lowest form:

(i) 0.04 (ii) 2.34 (iii) 0.342

(iv) 1.20 (v) 17.38

Solution: (i) $0.04 = 0+0.04 = \frac{4}{100} = \frac{1}{25}$

(ii) $2.34 = 2+0.34 = 2+\frac{34}{100}$

$= \frac{2\times100}{100}+\frac{34}{100} = \frac{200}{100}+\frac{34}{100}$

$= \frac{234}{100} = \frac{117}{50}$

(iii) $0.342 = 0+0.342$

$= 0+\frac{342}{1000} = \frac{342}{1000} = \frac{171}{500}$

(iv) $1.20 = 1+0.20 = 1+\frac{20}{100} = \frac{1\times100}{100}+\frac{20}{100} = \frac{120}{100} = \frac{6}{5}$

(v) $17.38 = 17+0.38 = \frac{17\times100}{100}+\frac{38}{100} = \frac{1700}{100}+\frac{38}{100}$

$= \frac{1738}{100} = \frac{869}{50}$

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Q6 Write each of the following as decimals.

(i) $20 + 9 + \frac{4}{10} + \frac{1}{100}$ (ii) $30 + \frac{4}{10} + \frac{8}{100} + \frac{3}{1000}$

(iii) $137 + \frac{5}{100}$ (iv) $\frac{7}{10} + \frac{6}{100} + \frac{4}{1000}$

(v) $23 + \frac{2}{10} + \frac{6}{1000}$ (vi) $700 + 20 + 5 + \frac{9}{100}$

Solution:

(i) $20 + 9 + \frac{4}{10} + \frac{1}{100} = (2 \times 10) + (9 \times 1) + (4 \times \frac{1}{10}) + (1 \times \frac{1}{100})$

$= 29.41$

(ii) $30 + \frac{4}{10} + \frac{8}{100} + \frac{3}{1000} = (3 \times 10) + (4 \times \frac{1}{10}) + (8 \times \frac{1}{100}) + (3 \times \frac{1}{1000})$

$= 30.483$

(iii) $137 + \frac{5}{100} = (1 \times 100) + (3 \times 10) + (7 \times 1) + \frac{0}{10} + \frac{5}{100}$

$= 137.05$

(iv) $\frac{7}{10} + \frac{6}{100} + \frac{4}{1000} = 7 \times \frac{1}{10} + 6 \times \frac{1}{100} + 4 \times \frac{1}{1000}$

$= 0.764$

(v) $23 + \frac{2}{10} + \frac{6}{1000} = 2 \times 10 + 3 \times 1 + 2 \times \frac{1}{10} + 0 \times \frac{1}{100} + 6 \times \frac{1}{1000}$

$= 23.206$

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(vii) $700 + 20 + 5 + \frac{9}{100} = 7 \times 100 + 2 \times 10 + 5 \times 1 + 0 \times \frac{1}{10} + 9 \times \frac{1}{100}$

$= 725.09$

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