

Exercise 7.3

Question: 1

- 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) $525 + \frac{40}{100} = 525.40$
- ii) $12 + \frac{35}{1000} = 12.035$
- iii) $15 + \frac{17}{1000} = 15.017$
- iv) $88 + \frac{48}{100} = 88.48$

Question: 2

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

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Solution:

- i) We have 1 hundred, 3 tens, 7 ones and 5 hundredths. Therefore, the decimal is 137.05
- ii) We have 2 tens, 9 ones and 4 hundredths. Therefore, the decimal is 29.04

Question: 3

- i) $\frac{8}{100}$
- ii) $\frac{300}{1000}$
- iii) $\frac{18}{1000}$
- iv) $\frac{208}{100}$

Solution:

- i) We have 8 hundredths. Therefore, the decimal is 0.08
- ii) In its lowest form, the fraction is $\frac{3}{10}$. We have 3 tenths. Therefore, the

decimal is 0.3

iii) We have eighteen thousandths. Therefore the decimal is 0.018

iv) $208100 = 200100 + 8100 = 2 + 8100$

We have 2 and 8 hundredths. Therefore, the decimal is 2.08

$888/1000$

$8881000 = 8001000 + 801000 + 81000 = 810 + 8100 + 81000$

We have 8 tenths, 8 hundredths and 8 thousandths. Therefore, the decimal is 0.888

Question: 4

i) $12\frac{1}{4}$

ii) $718 = 7 + 18$

iii) $5120 = 5 + 120$

Solution:

i) $1214 = 12 + 14$
 $= 12 + 254(25) = 12 + 25100 = 12.25$

ii) $7 + 1(1258)(125) = 7 + 1251000 = 7.125$

iii) $5 + 1(520)(5) = 5 + 510 = 5.05$

Question: 5

i) 0.04

ii) $7\frac{1}{8}$

iii) $5\frac{1}{20}$

iv) 1.20

v) 17.38

Solution:

i)

$$= 0 + 0.04$$

$$= 0 + 4 \text{ hundredths}$$

$$= 0 + 4100$$

$$= 125$$

ii)

$$2.34$$

$$= 2 + 0.34$$

$$= 2 + 34 \text{ hundredths}$$

$$= 2 + 34100$$

$$= 2(100100) + 34100$$

$$= 200100 + 34100$$

$$= 234100$$

$$= 11750$$

iii)

$$0.342$$

$$= 0 + 342 \text{ thousandths}$$

$$= 3421000$$

$$= 171500$$

iv)

$$= 1 + 0.20$$

$$= 1 + 20 \text{ hundredths}$$

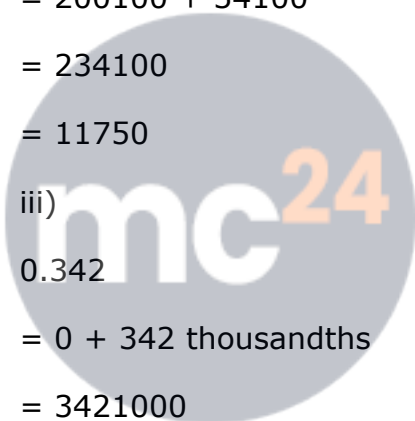
$$= 1 + 20100$$

$$= 100100 + 20100$$

$$= 120100$$

$$= 65$$

v)



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$$\begin{aligned}
&= 17 + 0.38 \\
&= 17 + 38 \text{ hundredths} \\
&= 17 + 38100 \\
&= 17(100100) + 38100 \\
&= 1700100 + 38100 \\
&= 1738100 \\
&= 86950
\end{aligned}$$

Question: 6

- i) 2 tens, 9 ones, 4 tenths and 1 hundredths.
- ii) 3 tens, we have 3 tens, 4 tenths, 8 hundredths and 3 thousandths.
- iii) 1 hundred, 3 tens, 7 ones and 5 hundredths.
- iv) 7 tenths, 6 hundredths and 4 thousandths.
- v) 2 tens, 3 ones, 2 tenths and 6 thousandths.
- vi) 7 hundreds, 2 tens, 5 ones and 9 hundredths.

Solution:

- i) Here, we have 2 tens, 9 ones, 4 tenths and 1 hundredths. Therefore, the decimal is 29.41
- ii) Here, we have 3 tens, we have 3 tens, 4 tenths, 8 hundredths and 3 thousandths. Therefore, the decimal is 30.483
- iii) Here, we have 1 hundred, 3 tens, 7 ones and 5 hundredths. Therefore, the decimal is 137.05
- iv) Here, we have 7 tenths, 6 hundredths and 4 thousandths . Therefore, the decimal is 0.764
- v) Here, we have 2 tens, 3 ones, 2 tenths and 6 thousandths. Therefore, the decimal is 23.206
- vi) Here, we have 7 hundreds, 2 tens, 5 ones and 9 hundredths. Therefore, the decimal is 725.09