

Decimals

Exercise 7.1

Question: 1

Write the following decimals in the place value table:

	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousand
(i)			5	2	5		
(ii)			1	2	5	7	
(iii)			1	5	0	5	
(iv)			7	4	0	5	9
(v)					5	0	3

The given decimals can be written as above in the place-value table

Solution:

	Decimals	Tens	Ones	Tenths	Hundredths	Thousand
(i)	52.5	5	2	5		
(ii)	12.5	1	2	5	7	
(iii)	15.05	2	5	0	5	
(iv)	74.059	7	2	0	5	9
(v)	0.503		0	5	0	3

Question: 2

The decimals shown in the above place value table can be written as follows:

(i) 307.12

(ii) 9543.025

(iii) 12.503

Solution:

	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths
(i)		3	0	7	1	2	
(ii)	9	5	4	3	0	2	5
(iii)			1	2	5	0	3

Question: 3

Write each of the following as decimals:

- i) One hundred seventy five and four hundredths.
- ii) Zero and twenty one hundredths
- iii) Nine and four thousandths
- iv) Zero and four hundred fifty nine thousandths

Solution:

- i) 175.04
- ii) 0.21
- iii) 0.459

Question: 4

i) $65 + \frac{2}{10} + \frac{7}{100}$

ii) $45 + \frac{9}{100}$

iii) $88 + \frac{5}{10} + \frac{2}{1000}$

iv) $\frac{3}{10} + \frac{7}{1000}$

Solution:

i) We have 6 tens, 5 ones and 7 hundredths. Therefore, the decimal number is 65.27

ii) We have 4 tens, 5 ones and 9 hundredths. Therefore, the decimal number is 45.09

iii) We have 8 tens, 8 ones, 5 tenths and 2 thousandths. Therefore, the decimal number is 88.502

iv) We have 3 tenths, 5 ones and 7 hundredths. Therefore, the decimal number is 0.307

Question: 5

Write each of the following as decimals

i) Five and four tenths

ii) Twelve four hundredths

iii) Nine and seven hundred five thousandths

iv) Zero point five two six

v) Forty seven and six thousandths

vi) Eight thousandths

vii) Nineteen and nineteen hundredths

Solution:

i) $5 + \frac{4}{10} = 5.4$

ii) $12 + \frac{4}{100} = 12.4$

iii) $9 + \frac{705}{1000} = 9.705$

iv) 0.526

v) $47 + \frac{6}{1000} = 47.006$

vi) $\frac{8}{1000} = 0.008$

vii) $19 + \frac{19}{100} = 19.19$