

Question 1.

Write each of the following decimal numbers in words:

- (i) 30.5
- (ii) 0.03
- (iii) 108.56
- (iv) 47.20
- (v) 5.008
- (vi) 26.039

Solution:

- (i) 30.5 Thirty point five
- (ii) 0.03 zero point zero three
- (iii) 108.56 One hundred eight point five six
- (iv) 47.20 Forty seven point two zero.
- (v) 5.008 Five point zero zero eight
- (vi) 26.039 Twenty six point zero three nine

Question 2.

Write each of the following decimal numbers in the place value table :

- (i) 4.2
- (ii) 0.3
- (iii) 205.9
- (iv) 0.29
- (v) 2.08
- (vi) 7200.812
- (vii) 38.007

Solution:

Places	Thousands	Hundreds	Tens	One	Tenths	Hundredths	Thousandths
Values	1000	100	10	1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
(i) 4.2				4	2		
(ii) 0.3				0	3		
(iii) 205.9		2	0	5	9		
(iv) 0.29				0	2	9	
(v) 2.08				2	0	8	
(vi) 7200.812	7	2	0	0	8	1	2
(vii) 38.007			3	8	0	0	7

Question 3.

Write the following decimal numbers in the expanded form :

(i) 123.7

(ii) 43.06

(iii) 509.306

Solution:

(i) $123.7 = 100 + 20 + 3 + \frac{7}{10}$

(ii) $43.06 = 40 + 3 + \frac{6}{100}$

(iii) $509.306 = 500 + 9 + \frac{3}{10} + \frac{6}{1000}$

Question 4.

Write each of the following as a decimal number :

$$(i) 200 + 60 + 5 + \frac{3}{10}$$

$$(ii) 50 + \frac{1}{10} + \frac{6}{100}$$

$$(iii) 70 + 6 + \frac{7}{10} + \frac{9}{1000}$$

$$(iv) 600 + 7 + \frac{3}{100} + \frac{6}{1000}$$

Solution:

$$(i) 200 + 60 + 5 + \frac{3}{10} = 265.30$$

$$(ii) 50 + \frac{1}{10} + \frac{6}{100} = 50.16$$

$$(iii) 70 + 6 + \frac{7}{10} + \frac{9}{1000} = 76.709$$

$$(iv) 600 + 7 + \frac{3}{100} + \frac{6}{1000} = 607.036$$

Question 5.

Write each of the following as decimals:

(i) Two ones and five tenths

(ii) Two tens and nine tenths

(iii) Six hundred point eight

(iv) Two hundred five and five hundredths

(v) Seven and fifteen thousandths

Solution:

$$(i) 2 \times 1 + 5 \times \frac{1}{10}$$

$$= 2 + \frac{5}{10} = 2.5$$

$$(ii) 2 \times 10 + 9 \times \frac{1}{10}$$

$$= 20 + \frac{9}{10} = 20.9$$

$$(iii) 600.8$$

$$(iv) 205 + \frac{5}{100} = 205.05$$

Question 6.

Write the number given in the following place value table in decimal form:

	Thousands (1000)	Hundreds (100)	Tens (100)	Ones (1)	Tenths $\left(\frac{1}{10}\right)$	Hundredths $\left(\frac{1}{100}\right)$	Thousandths $\left(\frac{1}{1000}\right)$
(i)	7	1	0	2	3	0	6
(ii)		2	1	1	9	0	2
(iii)	3	0	5	3	0	1	5
(iv)			7	0	0	3	
(v)				5	4	0	
(vi)		7	1	9	0	2	8

Solution:

(i) 7102.306

(ii) 211.902

(iii) 3053.015

(iv) 70.03

(v) 5.40

(vi) 719.028

Question 7.

Show the following decimal numbers on the number line:

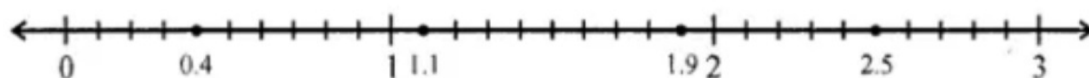
(i) 0.4

(ii) 1.9

(iii) 1.1

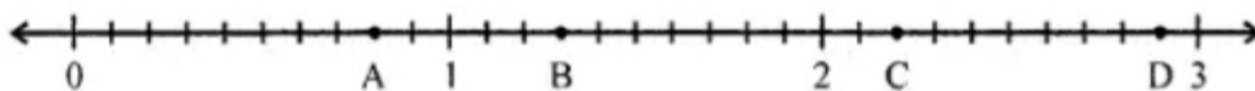
(iv) 2.5

Solution:



Question 8.

Write the decimal numbers represented by the points A, B, C and D on the given number line:



Solution:

$$A = 0.8$$

$$B = 1.3$$

$$C = 2.2$$

$$D = 2.9$$

Question 9.

Between which two numbers in tenths place on the number line does each of the given number lie?

(i) 0.06

(ii) 0.45

(iii) 0.66

(iv) 0.92

Solution:

(i) 0 and 0.1

(ii) 0.4 and 0.5

(iii) 0.6 and 0.7

(iv) 0.9 and 1.0