

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:-

Given decimal can be written in the word form as,

(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

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) 38.00

Solution:-

Given decimal number can be written in the place value table as,

| Places | Thousands | Hundreds | Tens | One | Tenths | Hundredths | Thousandths |
|------------------|-----------|----------|------|-----|--------|------------|-------------|
| Values | 1000 | 100 | 10 | 1 | 1/10 | 1/100 | 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 |

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

4. Write each of the following as a decimal number.

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

Solution:-

Above question can be written in decimal form as = 265.3

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

Solution:-

Above question can be written in decimal form as = 50.16

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

Solution:-

Above question can be written in decimal form as = 76.709

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

Solution:-

Above question can be written in decimal form as = 607.036

5. Write each of the following as decimals:

(i) Two ones and five tenths

Solution:-

Above questions can be written as,

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

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

$$= 2 + 0.5$$

$$= 2.5$$

(ii) Two tens and nine tenths

Solution:-

Above questions can be written as,
 $= (2 \times 10) + (9 \times (1/10))$
 $= 20 + 9/10$
 $= 20 + 0.9$
 $= 20.9$

(iii) Six hundred point eight

Solution:-

Above questions can be written as,
 $= 600.8$

(iv) Two hundred five and five hundredths

Solution:-

Above questions can be written as,
 $= (205) + (5 \times (1/100))$
 $= 205 + 5/100$
 $= 205 + 0.05$
 $= 205.05$

(v) Seven and fifteen thousandths

Solution:-

Above questions can be written as,
 $= (7 \times 1) + (15 \times (1/1000))$
 $= 7 + 15/1000$
 $= 7 + 0.015$
 $= 7.015$

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

| | Thousands | Hundreds | Tens | One | Tenths | Hundredths | Thousandths |
|-------|-----------|----------|------|-----|--------|------------|-------------|
| | 1000 | 100 | 10 | 1 | 1/10 | 1/100 | 1/1000 |
| (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) 7102.111
- (ii) 211.902
- (iii) 3053.015
- (iv) 70.03
- (v) 5.40
- (vi) 719.028



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