

Worksheet -17

Subject: - Mathematics

Class: - VII

Teacher: - Ms. Neeru

Name: _____ Class & Sec: _____ Roll No. _____ Date: 29.05.2020

EXERCISE 2.5

1. Which is greater?

(i) 0.5 or 0.05 (ii) 0.7 or 0.5 (iii) 7 or 0.7

(iv) 1.37 or 1.49 (v) 2.03 or 2.30 (vi) 0.8 or 0.88.

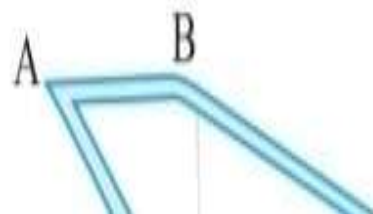
5. Write the following decimal numbers in the expanded form:

(i) 20.03 (ii) 2.03 (iii) 200.03 (iv) 2.034

6. Write the place value of 2 in the following decimal numbers:

(i) 2.56 (ii) 21.37 (iii) 10.25 (iv) 9.42 (v) 63.352.

7. Dinesh went from place A to place B and from there to place C. A is 7.5 km from B and B is 12.7 km from C. Ayub went from place A to place



Q1. Which is Ex 2.5 greater

$$5 < 7.$$

(i)
$$\begin{array}{ccc} 0.5 & & 0.05 \\ 0.50 & & 0.05 \\ \hline & 5 > 0 & \end{array}$$

like decimal

$$\therefore 0.5 > 0.05$$

(ii)
$$\begin{array}{ccc} 0.7 & & 0.5 \\ \hline & 7 > 5 & \end{array}$$

Already like fractions

$$\therefore 0.7 > 0.5$$

(iii)
$$\begin{array}{ccc} 7 & & 0.7 \\ 7.0 & & 0.7 \\ \hline & 7 > 0 & \end{array}$$

$$7.0 > 0.7$$

(iv)
$$\begin{array}{ccc} 1.37 & & 1.49 \\ \hline & 3 < 4 & \end{array}$$

$$1.37 < 1.49$$

$\therefore 1.49$ is greater

(v)
$$\begin{array}{ccc} 2.03 & & 2.30 \\ \hline & 0 < 3 & \end{array}$$

$$2.03 < 2.30$$

2.30 is greater

(vi)
$$\begin{array}{ccc} 0.8 & & 0.88 \\ 0.80 & & 0.88 \\ \hline & 0 < 8 & \end{array}$$

$$0.80 < 0.88$$

0.88 is greater

3	9	0	2	6	3	•	4	0	5
Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths

Question 5

Write the following decimal numbers in the expanded form:

(i) 20.03

(ii) 2.03

(iii) 200.03

(iv) 2.034

Answer 5:

$$(i) \quad 20.03 = 2 \times 10 + 0 \times 1 + 0 \times \frac{1}{10} + 3 \times \frac{1}{100}$$

$$(ii) \quad 2.03 = 2 \times 1 + 0 \times \frac{1}{10} + 3 \times \frac{1}{100}$$

$$(iii) \quad 200.03 = 2 \times 100 + 0 \times 10 + 0 \times 1 + 0 \times \frac{1}{10} + 3 \times \frac{1}{100}$$

$$(iv) \quad 2.034 = 2 \times 1 + 0 \times \frac{1}{10} + 3 \times \frac{1}{100} + 4 \times \frac{1}{1000}$$

Question 6

Write the place value of 2 in the following decimal numbers:

(i) 2.56

(ii) 21.37

(iii) 10.25

(iv) 9.42

(v) 63.352

Answer 6:

(i) Place value of 2 in 2.56 = $2 \times 1 = 2$ ones

(ii) Place value of 2 in 21.37 = $2 \times 10 = 2$ tens

(iii) Place value of 2 in 10.25 = $2 \times \frac{1}{10} = 2$ tenths

(iv) Place value of 2 in 9.42 = $2 \times \frac{1}{100} = 2$ hundredth

(v) Place value of 2 in 63.352 = $2 \times \frac{1}{1000} = 2$ thousandth

EXERCISE 2.6

1. Find:

- (i) 0.2×6 (ii) 8×4.6 (iii) 2.71×5 (iv) 20.1×4
(v) 0.05×7 (vi) 211.02×4 (vii) 2×0.86

2. Find the area of rectangle whose length is 5.7cm and breadth is 3 cm.

3. Find:

- (i) 1.3×10 (ii) 36.8×10 (iii) 153.7×10 (iv) 168.07×10
(v) 31.1×100 (vi) 156.1×100 (vii) 3.62×100 (viii) 43.07×100
(ix) 0.5×10 (x) 0.08×10 (xi) 0.9×100 (xii) 0.03×1000

4. A two-wheeler covers a distance of 55.3 km in one litre of petrol. How much distance will it cover in 10 litres of petrol?

5. Find:

- (i) 2.5×0.3 (ii) 0.1×51.7 (iii) 0.2×316.8 (iv) 1.3×3.1
(v) 0.5×0.05 (vi) 11.2×0.15 (vii) 1.07×0.02
(viii) 10.05×1.05 (ix) 101.01×0.01 (x) 100.01×1.1

Exercise Ex. 2.6

Solution 1

$$(i) \quad 0.2 \times 6 = \frac{2}{10} \times 6 = \frac{12}{10} = 1.2$$

$$(ii) \quad 8 \times 4.6 = 8 \times \frac{46}{10} = \frac{368}{10} = 36.8$$

$$(iii) \quad 2.71 \times 5 = \frac{271}{100} \times 5 = \frac{1355}{100} = 13.55$$

$$(iv) \quad 20.1 \times 4 = \frac{201}{10} \times 4 = \frac{804}{10} = 80.4$$

$$(v) \quad 0.05 \times 7 = \frac{5}{100} \times 7 = \frac{35}{100} = 0.35$$

$$(vi) \quad 211.02 \times 4 = \frac{21102}{100} \times 4 = \frac{84408}{100} = 844.08$$

$$(vii) \quad 2 \times 0.86 = 2 \times \frac{86}{100} = \frac{172}{100} = 1.72$$

$$(i) 1.3 \times 10 = \frac{13}{10} \times 10 = 13$$

Q3

$$(ii) 36.8 \times 10 = \frac{368}{10} \times 10 = 368$$

$$(iii) 153.7 \times 10 = \frac{1537}{10} \times 10 = 1537$$

$$(iv) 168.07 \times 10 = \frac{16807}{100} \times 10 = 1680.7$$

$$(v) 31.1 \times 100 = \frac{311}{10} \times 100 \\ = 311 \times 10 = 3110$$

$$(vi) 156.1 \times 100 = \frac{1561}{10} \times 100 \\ = 1561 \times 10 = 15610$$

$$(vii) 3.62 \times 100 = \frac{362}{100} \times 100 = 362$$

$$(viii) 43.07 \times 100 = \frac{4307}{100} \times 100 = 4307$$

$$(ix) 0.5 \times 10 = \frac{5}{10} \times 10 = 5$$

$$(x) 0.08 \times 10 = \frac{8}{100} \times 10 = \frac{8}{10} = 0.8$$

$$(xi) 0.9 \times 100 = \frac{9}{10} \times 100 = 9 \times 10 = 90$$

$$(xii) 0.03 \times 1000 = \frac{3}{100} \times 1000 = 3 \times 10 = 30$$

Answer :

Q5

$$(i) 2.5 \times 0.3 = \frac{25}{10} \times \frac{3}{10} = \frac{75}{100} = 0.75$$

$$(ii) 0.1 \times 51.7 = \frac{1}{10} \times \frac{517}{10} = \frac{517}{100} = 5.17$$

$$(iii) 0.2 \times 316.8 = \frac{2}{10} \times \frac{3168}{10} = \frac{6336}{100} = 63.36$$

$$(iv) 1.3 \times 3.1 = \frac{13}{10} \times \frac{31}{10} = \frac{403}{100} = 4.03$$

$$(v) 0.5 \times 0.05 = \frac{5}{10} \times \frac{5}{100} = \frac{25}{1000} = 0.025$$

$$(vi) 11.2 \times 0.15 = \frac{112}{10} \times \frac{15}{100} = \frac{1680}{1000} = 1.680 = 1.68$$

$$(vii) 1.07 \times 0.02 = \frac{107}{100} \times \frac{2}{100} = \frac{214}{10000} = 0.0214$$

$$(viii) 10.05 \times 1.05 = \frac{1005}{100} \times \frac{105}{100} = \frac{105525}{10000} = 10.5525$$

$$(ix) 101.01 \times 0.01 = \frac{10101}{100} \times \frac{1}{100} = \frac{10101}{10000} = 1.0101$$

$$(x) 100.01 \times 1.1 = \frac{10001}{100} \times \frac{11}{10} = \frac{110011}{1000} = 110.011$$