

Mathematics

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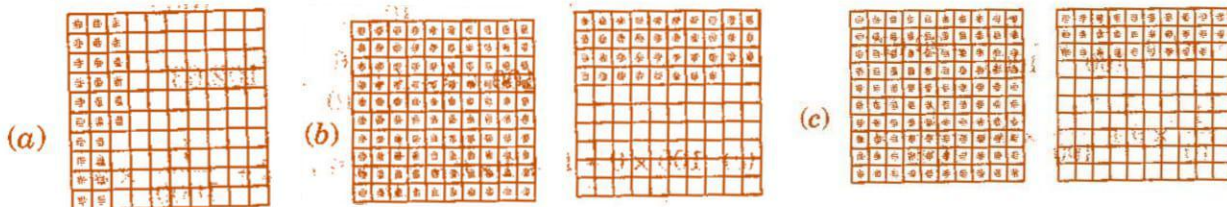
(Chapter – 8) (Decimals)

(Class – VI)

Exercise 8.2

Question 1:

Complete the table with the help of these boxes and use decimals to write the number:



	Ones	Tenths	Hundredths	Numbers
(a)				
(b)				
(c)				

Answer 1:

	Ones	Tenths	Hundredths	Numbers
(a)	0	2	6	0.26
(b)	1	3	8	1.38
(c)	1	2	8	1.28

Question 2:

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

	Hundreds 100	Tens 10	Ones 1	Tenths $\frac{1}{10}$	Hundredths $\frac{1}{100}$	Thousandths $\frac{1}{1000}$
(a)	0	0	3	2	5	0
(b)	1	0	2	6	3	0
(c)	0	3	0	0	2	5
(d)	2	1	1	9	0	2
(e)	0	1	2	2	4	1

Answer 2:

$$(a) 0 \times 100 + 0 \times 10 + 3 \times 1 + 2 \times \frac{1}{10} + 5 \times \frac{1}{100} + 0 \times \frac{1}{1000} \\ = 0 + 0 + 3 + 0.2 + 0.05 + 0 = 3.25$$

$$(b) 1 \times 100 + 0 \times 10 + 2 \times 1 + 6 \times \frac{1}{10} + 3 \times \frac{1}{100} + 0 \times \frac{1}{1000} \\ = 1 + 0 + 2 + 0.6 + 0.03 + 0 = 102.63$$

$$(c) 0 \times 100 + 3 \times 10 + 0 \times 1 + 0 \times \frac{1}{10} + 2 \times \frac{1}{100} + 5 \times \frac{1}{1000} \\ = 0 + 30 + 0 + 0 + 0.02 + 0.005 = 30.025$$

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$$(d) 2 \times 100 + 1 \times 10 + 1 \times 1 + 9 \times \frac{1}{10} + 0 \times \frac{1}{100} + 2 \times \frac{1}{1000}$$

$$= 200 + 10 + 1 + 0.9 + 0 + 0.002 = 211.902$$

$$(e) 0 \times 100 + 1 \times 10 + 2 \times 1 + 2 \times \frac{1}{10} + 4 \times \frac{1}{100} + 1 \times \frac{1}{1000}$$

$$= 0 + 10 + 2 + 0.2 + 0.04 + 0.001 = 12.241$$

Question 3:

Write the following decimals in the place value table:

(a) 0.29

(b) 2.08

(c) 19.60

(d) 148.32

(e) 200.812

Answer 3:

	Numbers	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths
		100	10	1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
(a)	0.29	0	0	0	2	9	0
(b)	2.08	0	0	2	0	8	0
(c)	19.60	0	1	9	6	0	0
(d)	148.32	1	4	8	3	2	0
(e)	200.812	2	0	0	8	1	2

Question 4:

Write each of the following as decimals:

$$(a) 20 + 9 + \frac{4}{10} + \frac{1}{100}$$

$$(b) 137 + \frac{5}{100}$$

$$(c) \frac{7}{10} + \frac{6}{100} + \frac{4}{1000}$$

$$(d) 23 + \frac{2}{10} + \frac{6}{1000}$$

$$(e) 700 + 20 + 5 + \frac{9}{100}$$

Answer 4:

$$(a) 20 + 9 + 0.4 + 0.01 = 29.41$$

$$(b) 137 + 0.05 = 137.05$$

$$(c) 0.7 + 0.06 + 0.004 = 0.764$$

$$(d) 23 + 0.2 + 0.006 = 23.206$$

$$(e) 700 + 20 + 5 + 0.09 = 725.09$$

Question 5:

Write each of the following decimals in words:

(a) 0.03

(b) 1.20

(c) 108.56

(d) 10.07

(e) 0.032

(f) 5.008

Answer 5:

(a) Zero point zero three

(b) One point two zero

(c) One hundred and eight point five six

(d) Ten point zero seven

(e) Zero point zero three two

(f) Five point zero zero eight

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Question 6:

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

- (a) 0.06
- (b) 0.45
- (c) 0.19
- (d) 0.66
- (e) 0.92
- (f) 0.57

Answer 6:

All the numbers lie between 0 and 1.

- (a) 0.06 is nearer to 0.1.
- (b) 0.45 is nearer to 0.5.
- (c) 0.19 is nearer to 0.2.
- (d) 0.66 is nearer to 0.7.
- (e) 0.92 is nearer to 0.9.
- (f) 0.57 is nearer to 0.6.

Question 7:

Write as fractions in lowest terms:

- (a) 0.60
- (b) 0.05
- (c) 0.75
- (d) 0.18
- (e) 0.25
- (f) 0.125
- (g) 0.066

Answer 7:

$$(a) 0.60 = \frac{\cancel{60}}{\cancel{100}} = \frac{3}{5}$$

$$(b) 0.05 = \frac{\cancel{5}}{\cancel{100}} = \frac{1}{20}$$

$$(c) 0.75 = \frac{\cancel{75}}{\cancel{100}} = \frac{3}{4}$$

$$(d) 0.18 = \frac{\cancel{18}}{\cancel{100}} = \frac{9}{50}$$

$$(e) 0.25 = \frac{\cancel{25}}{\cancel{100}} = \frac{1}{4}$$

$$(f) 0.125 = \frac{\cancel{125}}{\cancel{1000}} = \frac{1}{8}$$

$$(g) 0.066 = \frac{\cancel{66}}{\cancel{1000}} = \frac{33}{500}$$

