Question 1:
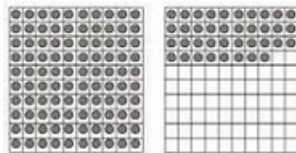
Complete the table with the help of these boxes and use decimals to write the number.

(a)
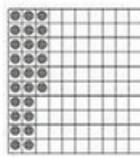
(b)

(c)
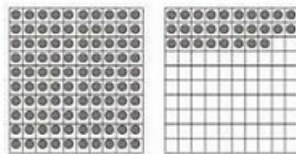
	Ones	Tenths	Hundredths	Number
(a)	-	-	-	-
(b)	-	-	-	-
(c)	-	-	-	-

Answer:

Row	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 $\left(\frac{1}{100}\right)$	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:

(a) $3+\dfrac{2}{10}+\dfrac{5}{100}=3+0.2+0.05=3.25$

(b) $100+2+\dfrac{6}{10}+\dfrac{3}{100}=102+0.6+0.03=102.63$

(c) $30+\dfrac{2}{100}+\dfrac{5}{1000}=30+0.02+0.005=30.025$

(d) $200+10+1+\dfrac{9}{10}+\dfrac{2}{1000}=211+0.9+0.002=211.902$

(e) $10+2+\dfrac{2}{10}+\dfrac{4}{100}+\dfrac{1}{1000}=12+0.2+0.04+0.001=12.241$

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:

(a) $0.29=0.2+0.09=\dfrac{2}{10}+\dfrac{9}{100}$

(b) $2.08=2+0.08=2+\dfrac{8}{100}$

(c) $19.60=19+0.60=10+9+\dfrac{6}{10}$

(d) $148.32=148+0.3+0.02=100+40+8+\dfrac{3}{10}+\dfrac{2}{100}$

(e) $200.812=200+0.8+0.01+0.002=200+\dfrac{8}{10}+\dfrac{1}{100}+\dfrac{2}{1000}$

Row	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths
(a)	0	0	0	2	9	0
(b)	0	0	2	0	8	0
(c)	0	1	9	6	0	0
(d)	1	4	8	3	2	0
(e)	2	0	0	8	1	2

Question 4:

Write each of the following decimals.

(a) $20+9+\dfrac{4}{10}+\dfrac{1}{100}$ (b) $137+\dfrac{5}{100}$

(c) $\dfrac{7}{10}+\dfrac{6}{100}+\dfrac{4}{1000}$ (d) $23+\dfrac{2}{10}+\dfrac{6}{1000}$

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

Answer:

(a) $20+9+\dfrac{4}{10}+\dfrac{1}{100}=29+0.4+0.01=29.41$

(b) $137+\dfrac{5}{100}=137+0.05=137.05$

(c) $\dfrac{7}{10}+\dfrac{6}{100}+\dfrac{4}{1000}=0.7+0.06+0.004=0.764$

(d) $23+\dfrac{2}{10}+\dfrac{6}{1000}=23+0.2+0.006=23.206$

(e) $700+20+5+\dfrac{9}{100}=725+0.09=725.09$

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:

(a) 0.03 = zero point zero three

(b) 1.20 = one point two zero

(c) 108.56 = one hundred eight point five six

(d) 10.07 = ten point zero seven

(e) 0.032 = zero point zero three two

(f) 5.008 = five point zero zero eight

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:

(a) 0.06 →0 and 0.1

(b) 0.45 →0.4 and 0.5

(c) 0.19 →0.1 and 0.2

(d) 0.66 →0.6 and 0.7

(e) 0.92 →0.9 and 1.0

(f) 0.57 →0.5 and 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:

(a) $0.60 = \dfrac{60}{100} = \dfrac{6}{10} = \dfrac{3}{5}$

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

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

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

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

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

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

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