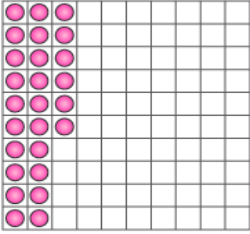
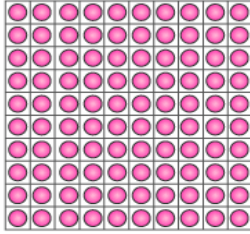
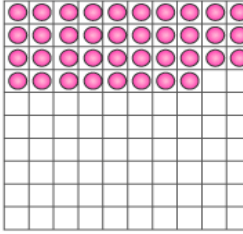
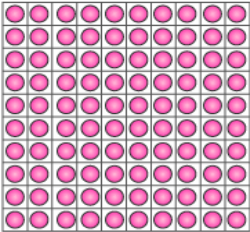
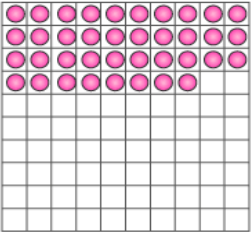


**EXERCISE 8.2**

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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)				

**Solutions:**

Rows	Ones	Tenths	Hundreds	Number
(a)	0	2	6	0.26
(b)	1	3	8	1.38
(c)	1	2	8	1.28

2. Write the numbers given in the following place value table in decimal form.

Rows	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths
	100	10	1	1 / 10	1 / 100	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

**Solutions:**

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

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

(c)  $30 + \frac{2}{100} + \frac{5}{1000}$

$$= 30 + 0.02 + 0.005$$

$$= 30.025$$

(d)  $200 + 10 + 1 + 9 / 10 + 2 / 1000$   
 $= 211 + 0.9 + 0.002$   
 $= 211.902$

(e)  $10 + 2 + 2 / 10 + 4 / 100 + 1 / 1000$   
 $= 12 + 0.2 + 0.04 + 0.001$   
 $= 12.241$

**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

**Solutions:**

(a) 0.29

$$= 0.2 + 0.09$$

$$= 2 / 10 + 9 / 100$$

(b) 2.08

$$= 2 + 0.08$$

$$= 2 + 8 / 100$$

(c) 19.60

$$= 19 + 0.60$$

$$= 10 + 9 + 6 / 10$$

(d) 148.32

$$= 148 + 0.3 + 0.02$$

$$= 100 + 40 + 8 + 3 / 10 + 2 / 100$$

(e) 200.812

$$= 200 + 0.8 + 0.01 + 0.002$$

$$= 200 + 8 / 10 + 1 / 100 + 2 / 1000$$

Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths
0	0	0	2	9	0
0	0	2	0	8	0
0	1	9	6	0	0
1	4	8	3	2	0
2	0	0	8	1	2

**4. Write each of the following as decimals.**

(a)  $20 + 9 + 4 / 10 + 1 / 100$

(b)  $137 + 5 / 100$

(c)  $7 / 10 + 6 / 100 + 4 / 1000$

(d)  $23 + 2 / 10 + 6 / 1000$

(e)  $700 + 20 + 5 + 9 / 100$

**Solutions:**

(a)  $20 + 9 + 4 / 10 + 1 / 100$   
 $= 29 + 0.4 + 0.01$   
 $= 29.41$

(b)  $137 + 5 / 100$   
 $= 137 + 0.05$   
 $= 137.05$

(c)  $7 / 10 + 6 / 100 + 4 / 1000$   
 $= 0.7 + 0.06 + 0.004$   
 $= 0.764$

(d)  $23 + 2 / 10 + 6 / 1000$   
 $= 23 + 0.2 + 0.006$   
 $= 23.206$

(e)  $700 + 20 + 5 + 9 / 100$   
 $= 725 + 0.09$   
 $= 725.09$

**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**

**Solutions:**

The following are the decimals in words

(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

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

(a) **0.60**

(b) **0.45**

(c) **0.19**

(d) **0.66**

(e) **0.92**

(f) **0.57**

**Solutions:**

(a) 0.60 lies between 0 and 0.1 in tenths place

(b) 0.45 lies between 0.4 and 0.5 in tenths place

(c) 0.19 lies between 0.1 and 0.2 in tenths place

- (d) 0.66 lies between 0.6 and 0.7 in tenths place  
(e) 0.92 lies between 0.9 and 1.0 in tenths place  
(f) 0.57 lies between 0.5 and 0.6 in tenths place

**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**

**Solutions:**

- (a)  $0.60 = 60 / 100$   
 $= 6 / 10$   
 $= 3 / 5$   
(b)  $0.05 = 5 / 100$   
 $= 1 / 20$   
(c)  $0.75 = 75 / 100$   
 $= 3 / 4$   
(d)  $0.18 = 18 / 100$   
 $= 9 / 50$   
(e)  $0.25 = 25 / 100$   
 $= 1 / 4$   
(f)  $0.125 = 125 / 1000$   
 $= 1 / 8$   
(g)  $0.066 = 66 / 1000$   
 $= 33 / 500$