

Decimal Place Value

Each place is 10 times the place to its right.

Write each digit in the place value chart.

Number	Hundreds	Tens	Ones	•	Tenths	Hundredths	Thousandths
Example 352.718	3	5	2	•	7	1	8
40.096				•			
7.305				•			
0.482				•			
615.07				•			

Write the value of the underlined digit.

Example 4.5 <u>2</u> 7 0.0 <u>2</u>	1. <u>6</u> 3.104 _____	2. 0.80 <u>9</u> _____
3. <u>2</u> 15.6 _____	4. 7. <u>3</u> 52 _____	5. <u>9</u> .71 _____
6. 18.0 <u>6</u> 4 _____	7. 30.4 <u>5</u> 8 _____	8. 546. <u>1</u> 9 _____

Use 10 times as much and $\frac{1}{10}$ of.

9. $10 \times 0.03 =$ _____	10. $\frac{1}{10}$ of 0.5 = _____
11. $10 \times 0.007 =$ _____	12. $\frac{1}{10}$ of 2 = _____
13. In 4.444, the 4 in the tenths place is _____ times the 4 to its right.	
14. In 7.777, the 7 in the thousandths place is _____ of the 7 to its left.	

Decimal Place Value

Write each number in standard, word, and expanded form.

Write the missing form: standard form or word form.

Standard Form	Word Form
Example 6.42	_____ six and forty-two hundredths _____
15.308	_____
_____	twenty-seven and four thousandths
0.09	_____
_____	three hundred five and sixty-one hundredths
_____	eight and seventy-five hundredths

Write each number in expanded form with decimals and with fractions.

Example

$$4.207 = 4 + 0.2 + 0.007$$

$$= 4 \times 1 + 2 \times \frac{1}{10} + 7 \times \frac{1}{1000}$$

1.

$$3.56 =$$

=

2.

$$12.084 =$$

=

3.

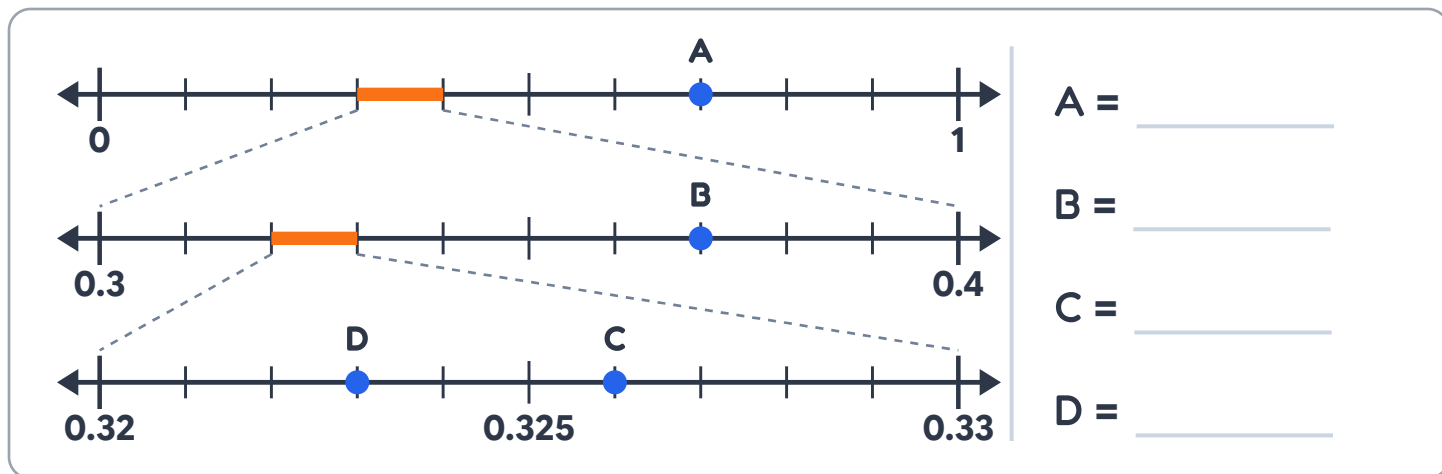
$$=$$

$$= 6 \times 10 + 5 \times \frac{1}{10} + 9 \times \frac{1}{1000}$$

Decimal Place Value

A thousandth is one tenth of a hundredth.

Zoom in. Each line shows one part of the line above it.



Write each number in other ways.

Example

0.7 = 7 tenths = 70 hundredths = 700 thousandths

1. 3.4 = _____ tenths = _____ hundredths

2. 0.25 = _____ hundredths = _____ thousandths

3. 0.048 = _____ thousandths

Write 0.001 more, 0.001 less, 0.01 more, and 0.1 more.

Number	0.001 more	0.001 less	0.01 more	0.1 more
Example 0.245	0.246	0.244	0.255	0.345
3.109				
1.999				
0.4				

Decimal Place Value

Compare and order decimals and fractions.

Mark each number with a dot and its letter. Then order the letters.

1. $A = 0.35$ $B = \frac{3}{4}$ $C = \frac{1}{5}$ $D = 0.6$



From least to greatest: _____, _____, _____, _____

2. $E = 2.175$ $F = 2.105$ $G = 2.19$ $H = 2.13$



From least to greatest: _____, _____, _____, _____

Write $>$, $<$, or $=$ in each circle.

3. 0.407 0.47

4. 2.5 2.500

5. $\frac{3}{10}$ 0.03

6. $\frac{1}{4}$ 0.25

7. 1.09 1.1

8. 0.999 1

9. 4.35 4.305

10. $\frac{7}{100}$ 0.7

11. 0.6 $\frac{3}{5}$

12. 5.02 5.002

Write the numbers in order from least to greatest.

13. 0.56 0.506 0.065 0.6 $\rightarrow$ _____, _____, _____, _____

14. $\frac{7}{10}$ 0.07 0.077 0.707 $\rightarrow$ _____, _____, _____, _____

Decimal Place Value

Round decimals to the nearest whole number, tenth, or hundredth.

Round. Which end of the number line is the number closer to?

Example

3.47 to the nearest tenth



3.4 3.45 3.5

Rounded: 3.5

1.

6.3 to the nearest whole number



6 6.5 7

Rounded: _____

2.

2.384 to the nearest hundredth



2.38 2.385 2.39

Rounded: _____

3.

0.75 to the nearest tenth



0.7 0.75 0.8

Rounded: _____

Round each number.

Number	Nearest whole number	Nearest tenth	Nearest hundredth
Example 4.268	<u>4</u>	<u>4.3</u>	<u>4.27</u>
15.731	_____	_____	_____
0.495	_____	_____	_____
9.952	_____	_____	_____
2.049	_____	_____	_____
7.605	_____	_____	_____

Circle each number that rounds to 4.3 (nearest tenth).

4.25

4.34

4.35

4.29

4.251

4.249

Decimal Place Value

Each place is 10 times the place to its right.

Write each digit in the place value chart.

Number	Hundreds	Tens	Ones	•	Tenths	Hundredths	Thousandths
Example 352.718	3	5	2	•	7	1	8
40.096				•			
7.305				•			
0.482				•			
615.07				•			

Write the value of the underlined digit.

Example 4.5 <u>2</u> 7 0.0 <u>2</u>	1. <u>6</u> 3.104 _____	2. 0.80 <u>9</u> _____
3. <u>2</u> 15.6 _____	4. 7. <u>3</u> 52 _____	5. <u>9</u> .71 _____
6. 18.0 <u>6</u> 4 _____	7. 30.4 <u>5</u> 8 _____	8. 546. <u>1</u> 9 _____

Use 10 times as much and $\frac{1}{10}$ of.

9. $10 \times 0.03 =$ _____	10. $\frac{1}{10}$ of 0.5 = _____
11. $10 \times 0.007 =$ _____	12. $\frac{1}{10}$ of 2 = _____
13. In 4.444, the 4 in the tenths place is _____ times the 4 to its right.	
14. In 7.777, the 7 in the thousandths place is _____ of the 7 to its left.	

Write each number in standard, word, and expanded form.

Write the missing form: standard form or word form.

Write each number in expanded form with decimals and with fractions.

$$4.207 = 4 + 0.2 + 0.007$$

$$= 4 \times 1 + 2 \times \frac{1}{10} + 7 \times \frac{1}{1000}$$

1. $3.56 =$

$$=$$

2. $12.084 =$

==

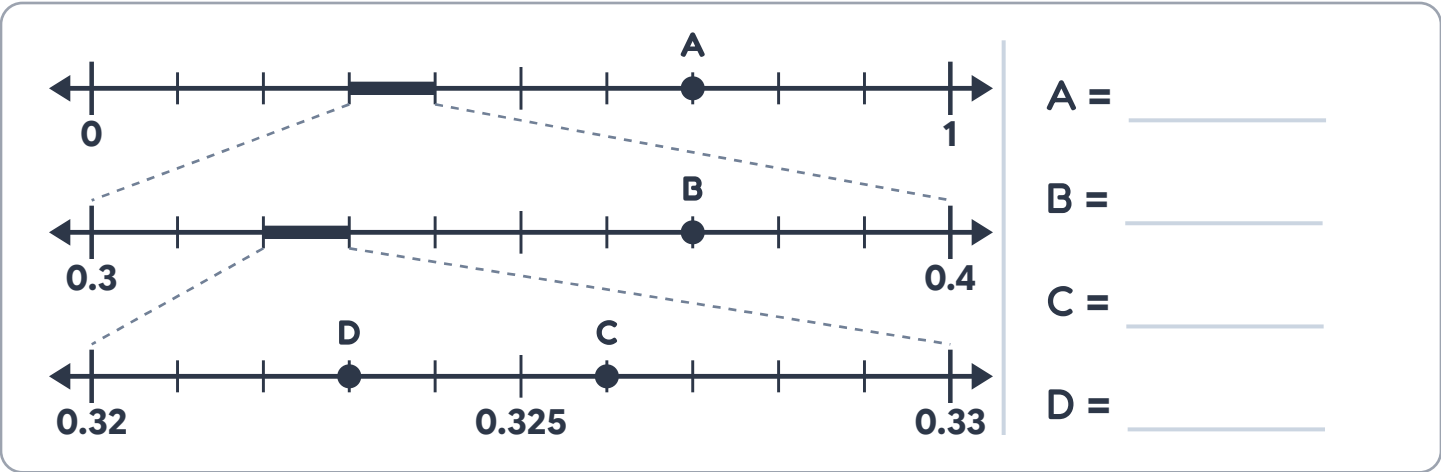
3. $\frac{1}{2} = \frac{1}{2}$

$$= 6 \times 10 + 5 \times \frac{1}{10} + 9 \times \frac{1}{1000}$$

Decimal Place Value

A thousandth is one tenth of a hundredth.

Zoom in. Each line shows one part of the line above it.



Write each number in other ways.

Example

0.7 = 7 tenths = 70 hundredths = 700 thousandths

1.

3.4 = _____ tenths = _____ hundredths

2.

0.25 = _____ hundredths = _____ thousandths

3.

0.048 = _____ thousandths

Write 0.001 more, 0.001 less, 0.01 more, and 0.1 more.

Number	0.001 more	0.001 less	0.01 more	0.1 more
Example 0.245	0.246	0.244	0.255	0.345
3.109				
1.999				
0.4				

Decimal Place Value

Compare and order decimals and fractions.

Mark each number with a dot and its letter. Then order the letters.

1. A = 0.35 B = $\frac{3}{4}$ C = $\frac{1}{5}$ D = 0.6



From least to greatest: _____, _____, _____, _____

2. E = 2.175 F = 2.105 G = 2.19 H = 2.13



From least to greatest: _____, _____, _____, _____

Write >, <, or = in each circle.

3. 0.407 ○ 0.47

4. 2.5 ○ 2.500

5. $\frac{3}{10}$ ○ 0.03

6. $\frac{1}{4}$ ○ 0.25

7. 1.09 ○ 1.1

8. 0.999 ○ 1

9. 4.35 ○ 4.305

10. $\frac{7}{100}$ ○ 0.7

11. 0.6 ○ $\frac{3}{5}$

12. 5.02 ○ 5.002

Write the numbers in order from least to greatest.

13. 0.56 0.506 0.065 0.6 → _____, _____, _____, _____

14. $\frac{7}{10}$ 0.07 0.077 0.707 → _____, _____, _____, _____

Decimal Place Value

Round decimals to the nearest whole number, tenth, or hundredth.

Round. Which end of the number line is the number closer to?

Example

3.47 to the nearest tenth

3.47

3.4

3.45

3.5

Rounded: 3.5

1. 6.3 to the nearest whole number

6.3

6

6.5

7

Rounded: _____

2. 2.384 to the nearest hundredth

2.384

2.38

2.385

2.39

Rounded: _____

3. 0.75 to the nearest tenth

0.75

0.7

0.8

Rounded: _____

Round each number.

Number	Nearest whole number	Nearest tenth	Nearest hundredth
Example 4.268	4	4.3	4.27
15.731	_____	_____	_____
0.495	_____	_____	_____
9.952	_____	_____	_____
2.049	_____	_____	_____
7.605	_____	_____	_____

Circle each number that rounds to 4.3 (nearest tenth).

4.25

4.34

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4.29

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4.249

Decimal Place Value

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Write each digit in the place value chart.

Number	Hundreds	Tens	Ones	•	Tenths	Hundredths	Thousandths
Example 352.718	3	5	2	•	7	1	8
40.096		4	0	•	0	9	6
7.305			7	•	3	0	5
0.482			0	•	4	8	2
615.07	6	1	5	•	0	7	

Write the value of the underlined digit.

Example 4.5 <u>2</u> 7 0.0 <u>2</u>	1. <u>6</u> 3.104 <u>60</u>	2. 0.80 <u>9</u> <u>0.009</u>
3. <u>2</u> 15.6 <u>200</u>	4. 7. <u>3</u> 52 <u>0.3</u>	5. <u>9</u> .71 <u>9</u>
6. 18.0 <u>6</u> 4 <u>0.004</u>	7. 30.4 <u>5</u> 8 <u>0.05</u>	8. 546. <u>1</u> 9 <u>0.1</u>

Use 10 times as much and $\frac{1}{10}$ of.

9. $10 \times 0.03 =$ <u>0.3</u>	10. $\frac{1}{10}$ of 0.5 = <u>0.05</u>
11. $10 \times 0.007 =$ <u>0.07</u>	12. $\frac{1}{10}$ of 2 = <u>0.2</u>
13. In 4.444, the 4 in the tenths place is <u>10</u> times the 4 to its right.	
14. In 7.777, the 7 in the thousandths place is <u>1/10</u> of the 7 to its left.	

Decimal Place Value

Write each number in standard, word, and expanded form.

Write the missing form: standard form or word form.

Standard Form	Word Form
Example 6.42	<u>six and forty-two hundredths</u>
15.308	<u>fifteen and three hundred eight thousandths</u>
<u>27.004</u>	twenty-seven and four thousandths
0.09	<u>nine hundredths</u>
<u>305.61</u>	three hundred five and sixty-one hundredths
<u>8.75</u>	eight and seventy-five hundredths

Write each number in expanded form with decimals and with fractions.

Example

$$4.207 = 4 + 0.2 + 0.007$$

$$= 4 \times 1 + 2 \times \frac{1}{10} + 7 \times \frac{1}{1000}$$

1.

$$3.56 = 3 + 0.5 + 0.06$$

$$= 3 \times 1 + 5 \times \frac{1}{10} + 6 \times \frac{1}{100}$$

2.

$$12.084 = 10 + 2 + 0.08 + 0.004$$

$$= 1 \times 10 + 2 \times 1 + 8 \times \frac{1}{100} + 4 \times \frac{1}{1000}$$

3.

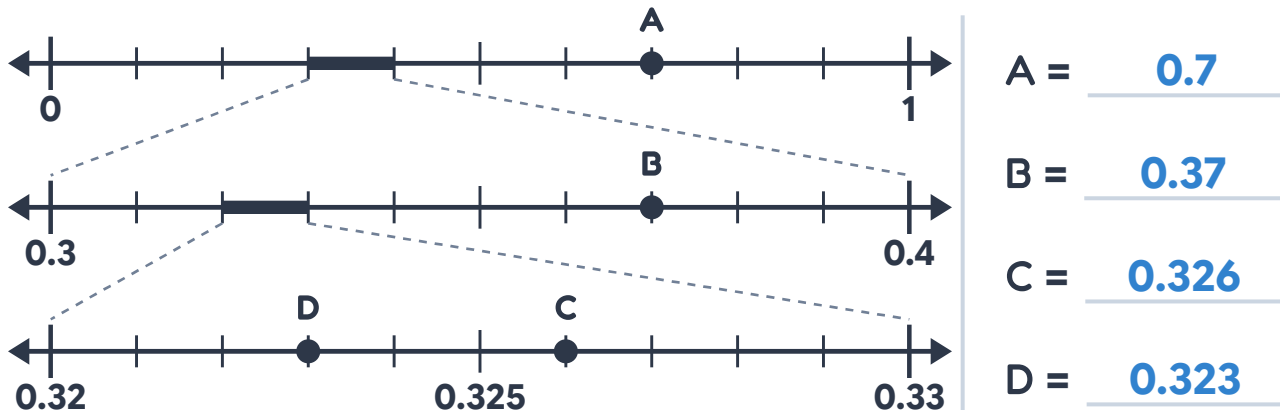
$$60.509 = 60 + 0.5 + 0.009$$

$$= 6 \times 10 + 5 \times \frac{1}{10} + 9 \times \frac{1}{1000}$$

Decimal Place Value

A thousandth is one tenth of a hundredth.

Zoom in. Each line shows one part of the line above it.



Write each number in other ways.

Example $0.7 = \underline{7}$ tenths = 70 hundredths = 700 thousandths

1. $3.4 = \underline{34}$ tenths = 340 hundredths

2. $0.25 = \underline{25}$ hundredths = 250 thousandths

3. $0.048 = \underline{48}$ thousandths

Write 0.001 more, 0.001 less, 0.01 more, and 0.1 more.

Number	0.001 more	0.001 less	0.01 more	0.1 more
Example 0.245	0.246	0.244	0.255	0.345
3.109	3.110	3.108	3.119	3.209
1.999	2.000	1.998	2.009	2.099
0.4	0.401	0.399	0.41	0.5

Decimal Place Value

Compare and order decimals and fractions.

Mark each number with a dot and its letter. Then order the letters.

1. $A = 0.35$ $B = \frac{3}{4}$ $C = \frac{1}{5}$ $D = 0.6$



From least to greatest: C , A , D , B

2. $E = 2.175$ $F = 2.105$ $G = 2.19$ $H = 2.13$



From least to greatest: F , H , E , G

Write $>$, $<$, or $=$ in each circle.

3. $0.407 < 0.47$

4. $2.5 = 2.500$

5. $\frac{3}{10} > 0.03$

6. $\frac{1}{4} = 0.25$

7. $1.09 < 1.1$

8. $0.999 < 1$

9. $4.35 > 4.305$

10. $\frac{7}{100} < 0.7$

11. $0.6 = \frac{3}{5}$

12. $5.02 > 5.002$

Write the numbers in order from least to greatest.

13. 0.56 0.506 0.065 0.6 $\rightarrow$ 0.065 , 0.506 , 0.56 , 0.6

14. $\frac{7}{10}$ 0.07 0.077 0.707 $\rightarrow$ 0.07 , 0.077 , $\frac{7}{10}$, 0.707

Decimal Place Value

Round decimals to the nearest whole number, tenth, or hundredth.

Round. Which end of the number line is the number closer to?

Example 3.47 to the nearest tenth



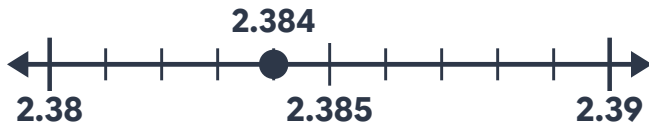
Rounded: 3.5

1. 6.3 to the nearest whole number



Rounded: 6

2. 2.384 to the nearest hundredth



Rounded: 2.38

3. 0.75 to the nearest tenth



Rounded: 0.8

Round each number.

Number	Nearest whole number	Nearest tenth	Nearest hundredth
Example 4.268	<u>4</u>	<u>4.3</u>	<u>4.27</u>
15.731	<u>16</u>	<u>15.7</u>	<u>15.73</u>
0.495	<u>0</u>	<u>0.5</u>	<u>0.50</u>
9.952	<u>10</u>	<u>10.0</u>	<u>9.95</u>
2.049	<u>2</u>	<u>2.0</u>	<u>2.05</u>
7.605	<u>8</u>	<u>7.6</u>	<u>7.61</u>

Circle each number that rounds to 4.3 (nearest tenth).

4.25

4.34

4.35

4.29

4.251

4.249