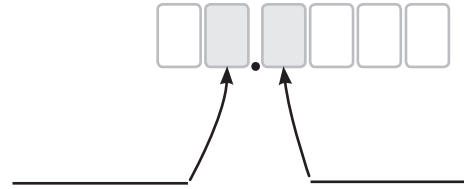


Decimal Place Value

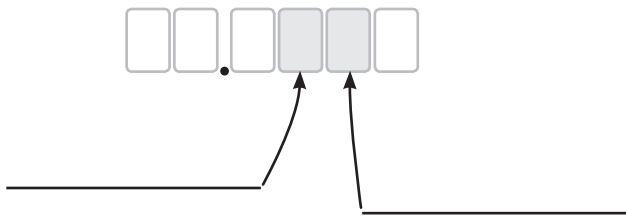
1 Fill in the blank.

The symbol that separates the whole number places from the decimal places is called the _____.

2 Name the number places:



3 Name the number places:



4 What is the place value of the digit '3' in this number?

1.375

5 What is the place value of the digit '7' in this number?

25.07

6 What is the place value of the digit '8' in this number?

0.2489

7 Write this number in expanded form:

25.36

8 Write this number in expanded form:

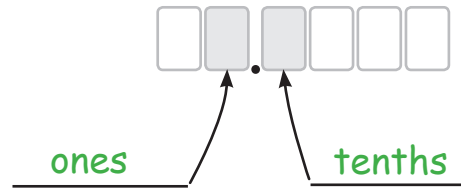
7.425

Decimal Place Value

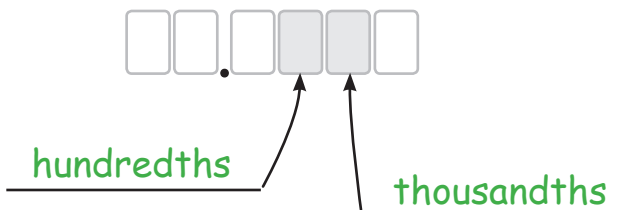
1 Fill in the blank.

The symbol that separates the whole number places from the decimal places is called the decimal point.

2 Name the number places:



3 Name the number places:



4 What is the place value of the digit '3' in this number?

1.375

because the 3 is in the 'tenths place'
it represents three tenths ($3 \times 1/10$)
so its place value is:

$$\frac{3}{10}$$

5 What is the place value of the digit '7' in this number?

25.07

because the 7 is in the 'hundredths place'
it represents seven hundredths ($7 \times 1/100$)
so its place value is:

$$\frac{7}{100}$$

6 What is the place value of the digit '8' in this number?

0.2489

because the 8 is in the 'thousandths place'
it represents eight thousandths ($8 \times 1/1000$)
so its place value is:

$$\frac{8}{1000}$$

7 Write this number in expanded form:

25.36

$$20 + 5 + \frac{3}{10} + \frac{6}{100}$$

8 Write this number in expanded form:

7.425

$$7 + \frac{4}{10} + \frac{2}{100} + \frac{5}{1000}$$

Identifying Decimal Number Places

NS-DPV 1

Instructions: Use your knowledge of number place names to identify the digits asked for in each problem below.

1 **3****4****.****2****8****5**

What digit is in the tens place? 3

What digit is in the tenths place? 2

2 **1****.****0****6****7**

What digit is in the tenths place? _____

What digit is in the hundredths place? _____

3 **4****1****0****.****5****2****8**

What digit is in the tenths place? _____

What digit is in the thousandths place? _____

4 **3****.****7****4****1****9****5**

What digit is in the hundredths place? _____

What digit is in the ten-thousandths place? _____

5 **5****2****.****3****7****4****8****6**

What digit is in the tenths place? _____

What digit is in the hundred-thousandths place? _____

6 **1****9****6****.****7****2****5****8**

What digit is in the hundreds place? _____

What digit is in the hundredths place? _____

7 **7****.****4****3****9****1****8****5**

What digit is in the ones place? _____

What digit is in the millionths place? _____

Invisible Decimal Number Places

NS-DPV 2

Instructions: Number places are usually invisible, so you need to be able to identify the digits they contain even when they are not shown. For each multi-digit number below, circle the digit that is in the number place listed.

1 tenths place
42.35

2 thousandths place
521.849

3 ones place
43.20675

4 hundreds place
8,461.250

5 hundredth place
789.520

6 tens place
12.059438

7 tenths place
745.6

8 ten-thousandths place
54.16925

9 hundreds place
2,310.5794

10 millionths place
843.010854

11 hundredths place
6,351.33

12 hundred-thousandths place
5,106.3007824

13 thousandths place
1.15627886

14 ones place
42.626

15 thousands place
9,426.37294218

16 tenths place
3.63280207

Place Value with Decimals

NS-DPV 3

Instructions: Remember that a digit's place determines its value as you answer the questions below.

1 What is the place value of the digit '2' in this number?
16.275 $\frac{2}{10}$ _____

2 What is the place value of the digit '4' in this number?
3.141 $\frac{4}{100}$ _____

3 What is the place value of the digit '9' in this number?
350.97 _____

4 What is the place value of the digit '7' in this number?
75.8 _____

5 What is the place value of the digit '1' in this number?
0.73194 _____

6 What is the place value of the digit '8' in this number?
5.2814 _____

7 What is the place value of the digit '3' in this number?
1,350.76 _____

8 What is the place value of the digit '7' in this number?
50.328716 _____

9 What is the place value of the digit '5' in this number?
24.5003 _____

10 What is the place value of the digit '9' in this number?
9,342.12 _____

11 What is the place value of the digit '4' in this number?
10.0472 _____

12 What is the place value of the digit '5' in this number?
12.938657 _____

13 What is the place value of the digit '8' in this number?
178.53 _____

14 What is the place value of the digit '6' in this number?
29.168 _____

Expanded Form with Decimals

NS-DPV 4

Instructions: Use what you learned in the video to write these numbers in expanded form.

1 153.427 $100 + 50 + 3 + \frac{4}{10} + \frac{2}{100} + \frac{7}{1,000}$

2 24.75

3 5.609

4 0.1234

5 5,822.3

6 39.054

7 604.855

8 9.83924

9 0.202

10 550.346

11 0.05203

12 473.625

Identifying Decimal Number Places

NS-DPV 1

Instructions: Use your knowledge of number place names to identify the digits asked for in each problem below.

1 3 4 . 2 8 5

What digit is in the tens place? 3

What digit is in the tenths place? 2

2 1 . 0 6 7

What digit is in the tenths place? 0

What digit is in the hundredths place? 6

3 4 1 0 . 5 2 8

What digit is in the tenths place? 5

What digit is in the thousandths place? 8

4 3 . 7 4 1 9 5

What digit is in the hundredths place? 4

What digit is in the ten-thousandths place? 9

5 5 2 . 3 7 4 8 6

What digit is in the tenths place? 3

What digit is in the hundred-thousandths place? 6

6 1 9 6 . 7 2 5 8

What digit is in the hundreds place? 1

What digit is in the hundredths place? 2

7 7 . 4 3 9 1 8 5

What digit is in the ones place? 7

What digit is in the millionths place? 5

Invisible Decimal Number Places

NS-DPV 2

Instructions: Number places are usually invisible, so you need to be able to identify the digits they contain even when they are not shown. For each multi-digit number below, circle the digit that is in the number place listed.

1 tenths place
42.35

2 thousandths place
521.849

3 ones place
43.20675

4 hundreds place
8,461.250

5 hundredth place
789.520

6 tens place
12.059438

7 tenths place
745.6

8 ten-thousandths place
54.16925

9 hundreds place
2,310.5794

10 millionths place
843.010854

11 hundredths place
6,351.33

12 hundred-thousandths place
5,106.3007824

13 thousandths place
1.15627886

14 ones place
42.626

15 thousands place
9,426.37294218

16 tenths place
3.63280207

Place Value with Decimals

NS-DPV 3

Instructions: Remember that a digit's place determines its value as you answer the questions below.

1 What is the place value of the digit '2' in this number?
16.275 $\frac{2}{10}$

2 What is the place value of the digit '4' in this number?
3.141 $\frac{4}{100}$

3 What is the place value of the digit '9' in this number?
350.97 $\frac{9}{10}$

4 What is the place value of the digit '7' in this number?
75.8 70

5 What is the place value of the digit '1' in this number?
0.73194 $\frac{1}{1,000}$

6 What is the place value of the digit '8' in this number?
5.2814 $\frac{8}{100}$

7 What is the place value of the digit '3' in this number?
1,350.76 300

8 What is the place value of the digit '7' in this number?
50.328716 $\frac{7}{10,000}$

9 What is the place value of the digit '5' in this number?
24.5003 $\frac{5}{10}$

10 What is the place value of the digit '9' in this number?
9,342.12 9,000

11 What is the place value of the digit '4' in this number?
10.0472 $\frac{4}{100}$

12 What is the place value of the digit '5' in this number?
12.938657 $\frac{5}{100,000}$

13 What is the place value of the digit '8' in this number?
178.53 8

14 What is the place value of the digit '6' in this number?
29.168 $\frac{6}{100}$

Expanded Form with Decimals

NS-DPV 4

Instructions: Use what you learned in the video to write these numbers in expanded form.

1 153.427 $100 + 50 + 3 + \frac{4}{10} + \frac{2}{100} + \frac{7}{1,000}$

2 24.75 $20 + 4 + \frac{7}{10} + \frac{5}{100}$

3 5.609 $5 + \frac{6}{10} + \frac{9}{1,000}$

4 0.1234 $\frac{1}{10} + \frac{2}{100} + \frac{3}{1,000} + \frac{4}{10,000}$

5 5,822.3 $5,000 + 800 + 20 + 2 + \frac{3}{10}$

6 39.054 $30 + 9 + \frac{5}{100} + \frac{4}{1,000}$

7 604.855 $600 + 4 + \frac{8}{10} + \frac{5}{100} + \frac{5}{1,000}$

8 9.83924 $9 + \frac{8}{10} + \frac{3}{100} + \frac{9}{1,000} + \frac{2}{10,000} + \frac{4}{100,000}$

9 0.202 $\frac{2}{10} + \frac{2}{1,000}$

10 550.346 $500 + 50 + \frac{3}{10} + \frac{4}{100} + \frac{6}{1,000}$

11 0.05203 $\frac{5}{100} + \frac{2}{1,000} + \frac{3}{100,000}$

12 473.625 $400 + 70 + 3 + \frac{6}{10} + \frac{2}{100} + \frac{5}{1,000}$
