

## Identifying Decimal Number Places

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

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

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

DPV 4

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

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

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

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

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

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

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

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

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

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

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

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

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

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