Place Value Practice Problems (set 2)

Identifying Decimal Number Places

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

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

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 $\dfrac{2}{10}$

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

3.141 $\dfrac{4}{100}$

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

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

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

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