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# 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. 34.285
   - What digit is in the tens place? 3
   - What digit is in the tenths place? 2

2. 1.067
   - What digit is in the tenths place? 0
   - What digit is in the hundredths place? 6

3. 410.528
   - What digit is in the tenths place? 5
   - What digit is in the thousandths place? 8

4. 3.74195
   - What digit is in the hundredths place? 4
   - What digit is in the ten-thousandths place? 9

5. 52.37486
   - What digit is in the tenths place? 3
   - What digit is in the hundred-thousandths place? 6

6. 196.7258
   - What digit is in the hundreds place? 1
   - What digit is in the hundredths place? 2

7. 7.439185
   - What digit is in the ones place? 7
   - What digit is in the millionths place? 5

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# 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
    5,106.300782 4
13. thousandths place
    1.156 27886
14. ones place
    42.626
15. thousands place
    9,426.37294218
16. tenths place
    3.63280207

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# 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 — 2/10

2. What is the place value of the digit '4' in this number?
   3.141 — 4/100

3. What is the place value of the digit '9' in this number?
   350.97 — 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 — 1/1,000

6. What is the place value of the digit '8' in this number?
   5.2814 — 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 — 7/10,000

9. What is the place value of the digit '5' in this number?
   24.5003 — 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 — 4/100

12. What is the place value of the digit '5' in this number?
    12.938657 — 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 — 6/100

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