Topic: Place value

Question: Identify the place value of the 5 after the decimal point.

0.3154

Answer choices:

A Hundredths

B Thousandths

C Thousands

D Tenths

Solution: B

There are four digits to the right of the decimal point. The 5 is three places to the right of the decimal point, which means it's in the thousandths place. We could even break down each place in this number:

3 is in the tenths place, and its value is 0.3 or $\frac{3}{10}$

1 is in the hundredths place, and its value is 0.01 or $\frac{1}{100}$

5 is in the thousandths place, and its value is 0.005 or $\frac{5}{1{,}000}$

4 is in the ten-thousandths place, and its value is 0.0004 or $\frac{4}{10{,}000}$

Topic: Place value

Question: Identify the place value of the 3 that immediately follows the 4.

$4{,}\underline{3}65{,}831$

Answer choices:

A Ten thousands

B Hundred thousands

C Hundred-thousandths

D Millions

Solution: B

There are seven digits to the left of the decimal point. The 3 is six places to the left of the decimal point, which means it's in the hundred thousands place.

4 is in the millions place, and its value is $4{,}000{,}000$

3 is in the hundred thousands place, and its value is $300{,}000$

6 is in the ten thousands place, and its value is $60{,}000$

5 is in the thousands place, and its value is $5{,}000$

8 is in the hundreds place, and its value is 800

3 is in the tens place, and its value is 30

1 is in the ones place, and its value is 1

Topic: Place value

Question: Identify the place value of the three.

$5.0\underline{3}45$

Answer choices:

A Hundredths

B Ones

C Tens

D Tenths

Solution: A

There are four digits to the right of the decimal point. The 3 is two places to the right of the decimal point, which means it's in the hundredths place.

5 is in the Ones place, and its place value is 5

0 is in the tenths place, and its value is $\frac{0}{10}$

3 is in the hundredths place, and its value is 0.03 or $\frac{3}{100}$

4 is in the thousandths place, and its value is 0.004 or $\frac{4}{1{,}000}$

5 is in the ten-thousandths place, and its value is 0.0005 or $\frac{5}{10{,}000}$