

Rounding and Place Value Notes

Decimal Place Value

In this course we will always round to the nearest hundredths or the nearest one (as in degrees).

Millions	Hundred-thousands	Ten-thousands	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths	Ten-thousandths	Hundredthousandths	millionths
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Rounding Rules

- Look to the right of the place value you are asked to round to.
- If the digit/number to the right is 5 or larger, round up.
- If the number is 4 or smaller, leave the number or round down.

Whole numbers: Round to the place value indicated.

a. $\underline{23} = \underline{20}$

b. $\underline{1456} = \underline{1500}$

c. $\underline{984\ 741} = \underline{985\ 000}$

d. $\underline{7893} = \underline{8000}$

e. $\underline{4201} = \underline{4200}$

f. $\underline{245\ 485} = \underline{200\ 000}$

Decimal Numbers Round to the place value indicated

a. $\underline{0.023} = \underline{0.020}$

b. $\underline{0.00854} = \underline{0.0085}$

c. $\underline{0.073899} = \underline{0.0739}$

d. $\underline{0.989} = \underline{1.0} = 1$

e. $\underline{1.2841} = \underline{1.28}$

f. $\underline{23.2197} = \underline{23.22}$

345
- 0300.

Show you know

Round the following numbers to the value indicated.

a. $17.\underline{6} = \underline{18}$

b. $101.\underline{3}4 = \underline{101.3}$

c. $53.\underline{9}73 = \underline{54}$

d. $0.9\underline{2}34 = \underline{0.92}$

e. $0.00\underline{2}7 = \underline{0.003}$

Ordering decimal numbers

Ex 1 Arrange each set of numbers from least to greatest.

a. 4.54, 4.04, $\overset{4.415}{\cancel{4.415}}$, 4.49, 4.55, 4.05,

$\underline{4.04, 4.05, 4.415, 4.49, 4.54, 4.55}$

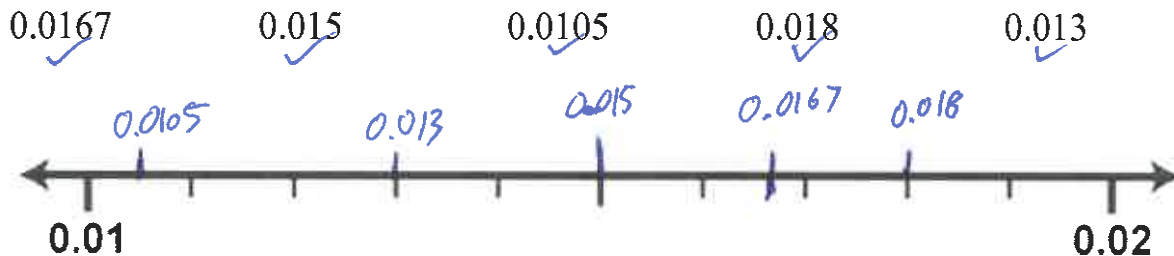
Show you know

Arrange the following numbers from greatest to least.

6.06, 6.006, 6.16, 6.016, 6.07, 6.26, 6.026

$\underline{6.26, 6.16, 6.07, 6.06, 6.026, 6.006}$

Place the following numbers on the number line



Show you know

0.00945

0.0107

0.00975

0.0104

