Pre-Algebra Workbook

Decimals

krista king MATH

PLACE VALUE

- 1. Identify the place value of the 2 in $4{,}562.387$.

- 2. Identify the place value of the 0 in 307.119.

- 3. What is the number in the ten-thousandths place of $6{,}520.0019$?

- 4. What is the number in the tenths place of 0.89104?

- 5. The further we move to the right of the decimal point, the _____ (smaller or larger?) the value gets.

- 6. The further we move to the left of the decimal point, the _____ (smaller or larger?) the value gets.

DECIMAL ARITHMETIC

■ 1. Find the sum.

$4.5 + 3.75$

■ 2. Find the difference.

$7.87 - 4.9876$

■ 3. Find the product.

$1.5 \cdot 8.8$

■ 4. Find the quotient.

$5.65 \div 0.02$

■ 5. Simplify the expression.

$2.5783 + 5.789 - 3.25$

■ 6. Simplify the expression.

$1.24 \cdot 2.61$

REPEATING DECIMALS

1. A finite decimal number is a number that _____.

2. Rewrite 0.888888 as a repeating decimal.

3. Rewrite 0.1818181818 as a repeating decimal.

4. What is the next digit in $3.\overline{142857}$?

5. What is the next digit in $0.41\overline{6}$?

6. Name an example of a decimal number that does not end, but does not repeat.

ROUNDING

1. If a number is _____ or greater, we round up.

2. Round 11.451 to the nearest tenth.

3. Round 691.014 to the tens place.

4. Round $11.\overline{6}$ to the nearest thousandth.

5. When we round a number to the tenths place, we look at the digit in the _____ place in order to determine which way to round the number.

6. Judith types $2 \div 3$ into the calculator and gets the answer 0.66666666667. Judith tells her friend Andy that this is not a repeating decimal because there is a 7 at the end. Andy disagrees and says the calculator rounds the number and that is why there is a 7. Who is correct? Why?

FOR THE LOVE OF MATH

WWW.KRISTAKINGMATH.COM