Math Fundamentals Unit 1 Pre-Test

Write a variable expression for each word phrase.

1.) The product of a number and 4.

2.) The sum of k and 7.

3.) The difference between 12 and b.

4.) The quotient of f and 11.

5.) 3 less than g.

Find the rule the pattern is using. Determine the next number in the sequence.

1.) 11, 17, 23, 29, 35...

2.) 4 , 12 , 36 , 108...

3.) 29, 24, 19, 14...

4.) 128, 64, 32, 16...

1.) What is the relationship between the input and output?

In	4	6	10	2
Out	24	36	60	12

2.) What is the relationship between the input and output?

In	9	4	2	12
Out	12	7	5	15

3.) What is the relationship between the input and output?

In	6	10	3	14
Out	4	8	1	12

4.) A pattern starts with 3. The second number is a 6. The third is a 9. Fourth is a 12 and fifth is 15. If the pattern continues, what is the identity of the 15th number?

5.) A pattern starts with 1. The second number is a 4. The third is a 9. Fourth is a 16 and fifth is 25. If the pattern continues, what is the identity of the 9th number?

1.) Use the number below to answer the following questions:

387,294

a) Which number occupies the ten thousands place?

b) The 9 digit is in which place value?

c) The 8 digit is in which place value?

d) Which number occupies the hundred thousands place?

e) The 2 digit is in which place value?

Write the following number in both written and expanded form:

374,815

Written: _____

Expanded: _____

Write the following number in both written and expanded form:

708,972

Written: _____

Expanded: _____

Write the following number in both written and expanded form:

98,024

Written: _____

Expanded: _____

1.) Use the number below to answer the following questions:

4.93728

f) Which number occupies the ten thousandths place?

g) The 9 digit is in which place value?

h) The 8 digit is in which place value?

i) Which number occupies the hundredths place?

j) The 2 digit is in which place value?

1.) Use an inequality sign to compare the value of the two numbers.

3.299999 _____ 3.3

2.009 _____ 2.8

8.099 _____ 8.1

7.0000 _____ 7

2.) Round the following numbers to the nearest hundredth:

5.786 = _____

3.052 = _____

3.) Round the following numbers to the nearest tenth:

4.309 = _____

9.153 = _____

4.) Round the following numbers to the nearest hundredth:

5.995 = _____

6.050 = _____

1.) a) Write the number two and eight hundred twenty-five thousandths in number form.

_____

b) Write the number seven and seventy-two hundredths in number form.

_____

c) Write the number nine and three hundredths in number form.

_____

d) Write the number eight and ninety-one thousandths in number form.

_____

2.) Write the following number in both written and expanded form:

3.274

Written: _____

Expanded: _____

3.) Write the following number in both written and expanded form:

5.023

Written: _____

Expanded: _____

4.) Write the following number in both written and expanded form:

2.904

Written: _____

Expanded: _____

1.) Solve.

If 8 × 7 = 56, what is 8,000 × 70?

If 4 × 6 = 24, what is 400 × 600?

If 48 ÷ 8 = 6, what is 48,000 ÷ 800?

If 84 ÷ 12 = 7, what is 8,400,000 ÷ 120?

1.) Solve.

$$\begin{array}{r} 809 \\ \times\ \underline{17} \end{array}$$

2.) Solve.

$$\begin{array}{r} 235 \\ \times\ \underline{60} \end{array}$$

3.) Solve.

$$190 \times 24$$

4.) Solve.

$$702 \times 51$$

1.) Nate ate 238 cookies every day for 42 days. How many cookies did he eat in all? Why does Nate eat his feelings?

2.) Matilda made $563 each day selling her outrageously additive lemonade. If she sold lemonade every day for 65 days, how much monies would she make? What could possibly be in the lemonade?

Solve.

1.) 836 ÷ 22

2.) 455 ÷ 13

3.) 954 ÷ 53

4.) 992 ÷ 16