Math Fundamentals Unit 1 Pre-Test

Write a variable expression for each word phrase.

1.) The product of a number and 4.

n*4

2.) The sum of k and 7.

K+7

3.) The difference between 12 and b.

12-6

4.) The quotient of f and 11.

f or f:11

5.) 3 less than g.

9-3

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

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

Add 6 (+6)

35+6=(41)

2 Multiply by 3 (+3)

108

x 324

324

Subhact 5

14-5=(9)

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

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

In	4 746	6 16	10 x6	2 1 16
Out	24	360	60	12

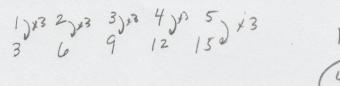
2.) What is the relationship between the input and output?

In	9)+3	4 \ + 3	27+3	12 13
Out	12	7)	5	15
	luput	. ~ /	Add 3)	

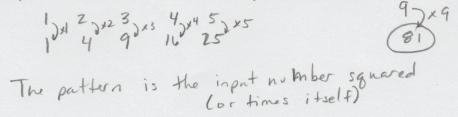
3.) What is the relationship between the input and output?

in	6	10 2	3 \ -2	14
Out	4 6-2	8	1	12 2

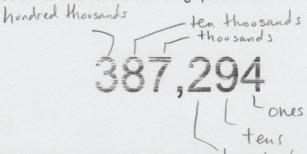
4.) A pattern starts with 3. The second number is a 6. The third is a 9. Fourth is a 12 and fifth is 15. If the pattern continues, what is the identity of the 15th number?



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:



- a) Which number occupies the ten thousands place? hundreds
- 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?

3

e) The 2 digit is in which place value?

hundreds

Write the following number in both written and expanded form:

374,815

Written: Three hundred seventy four thousand eight hundred fifteen

Expanded:
$$\frac{5 + 10 + 800 + 4,000 + 70,000 + 300,000}{1(10) + 8(100) + 4(1,000) + 7(10,000) + 3(100,000)}$$

Write the following number in both written and expanded form:

708,972

Written: Seven hundred eight thousand nine hundred seventy two

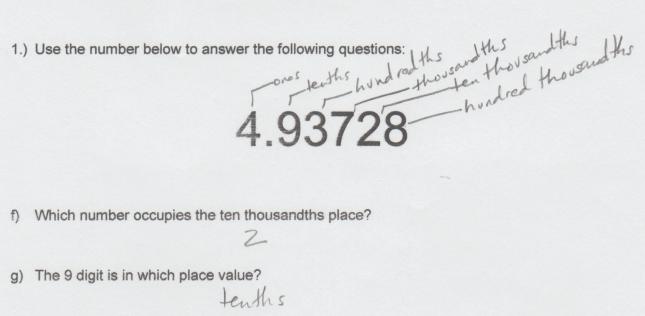
Expanded:
$$\frac{2+70+900+8,000+700,000}{7(10)+9(100)+8(1000)+7(100,000)}$$

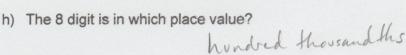
Write the following number in both written and expanded form:

98,024

Written: Ninety eight thousand twenty-four

Expanded:
$$\frac{4+20+8,000+90,000}{2(10)+8(1000)+9(10,000)}$$





- i) Which number occupies the hundredths place?
- j) The 2 digit is in which place value?

ten thousandths

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

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

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

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

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.
	8.091
2.)	Write the following number in both written and expanded form:
	3.274
	Written: Three and two hundred seventy four thousandth
	Expanded: $3 + \frac{2}{10} + \frac{7}{100} + \frac{4}{1000}$
3.)	Write the following number in both written and expanded form: 5.023
	Written: Five and twenty three thousandths
	Expanded: $5 + \frac{3}{1000}$
4.)	Write the following number in both written and expanded form:

2.904

Written: Two and nine hundred four thousandths

Expanded: 2 + 9/10 + 9/1,000

1.) Solve.

If 8 × 7 = 56, what is
$$8,000 \times 70$$
?

560000

If
$$4 \times 6 = 24$$
, what is $400^{2} \times 600$?

If
$$48 \div 8 = 6$$
, what is $48,000 \div 800$?

If 84 ÷ 12 = 7, what is 8,400,000 ÷ 12,0?
$$700,000 = 70,000$$

1.) Solve.

2.) Solve.

3.) Solve.

		³ 190			
		×	2	24	
	1	7	6	0	
	3	8	0	0	
(4,	5	6	0)

4.) Solve.

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?

x 65 2815 Joy. Joy is in the Cemonade.