Math Fundamentals Unit 1 Pre-Test

Write a variable expression for each word phrase.

3.) The difference between 12 and $b$.
4.) The quotient of $f$ and 11 .


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


* 3

3.) $29,24,19,14 \ldots$
4.) $128,64,32,16 \ldots$
1.) What is the relationship between the input and output?

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 | -2 | 3 |
| :---: | :---: | :---: | :---: | :---: |
| Out | 4 | 14 | -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 9 th 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
个
written: Three hundred seventy-four thousand eight hundred $\frac{\text { fifteen }}{\text { Thed }}$

Expanded: $300,000+70,000+4,000+800+10+5$

Write the following number in both written and expanded form:

708,972

Written: $\qquad$

Expanded: $\qquad$

Write the following number in both written and expanded form:
98,024

Written: $\qquad$

Expanded: $\qquad$
1.) Use the number below to answer the following questions:

f) Which number occupies the ten thousandths place?

2
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.

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

$3.052=$ $\qquad$
3.) Round the following numbers to the nearest tenth:

$9.153=$ $\qquad$
4.) Round the following numbers to the nearest hundredth:
$\longrightarrow$

$6.050=$ $\qquad$

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.


$$
9.03
$$

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: $\qquad$

Expanded: $\qquad$
3.) Write the following number in both written and expanded form:

written: Five and twenty-thee thousandths

Expanded: $5+\frac{2}{100}+\frac{3}{1000}$
4.) Write the following number in both written and expanded form:
2.904

Written: $\qquad$

Expanded: $\qquad$
1.) Solve.


If $4 \times 6=24$, what is $400 \times 600$ ?


If $84 \div 12=7$, what is $8,400,000 \div 120 ?$
1.) Solve.
2.) Solve.


$$
\begin{array}{r}
235 \\
\times \quad 60 \\
\hline
\end{array}
$$

3.) Solve.

> I do not trust you!!

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?
Because they
238
are delicious.
238
$\times 42$
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.) $836 \div 22$

2.) $455 \div 13$
3.) $954 \div 53$
4.) $992 \div 16$

