

Name \_\_\_\_\_

## Rounding Decimals

Find each number by using the clues.

1. This number rounds to 4.8. The sum of its digits is 19. The digit in the hundredths place is half the digit in the tenths place. The digit in the thousandths place is 1 less than the digit in the hundredths place.  
\_\_\_\_\_
  
2. This number rounds to 3.6. The sum of its digits is 13. The product of its digits is 75.  
\_\_\_\_\_
  
3. This number rounds to 2.3. The sum of its digits is 6, and the product is 6.  
\_\_\_\_\_
  
4. This number rounds to 5. The sum of its digits is 12, and the product is 32. Both digits are multiples of the same number.  
\_\_\_\_\_
  
5. This number rounds to 1.2. The sum of the digits is 10, the product is 24, and the numbers are consecutive.  
\_\_\_\_\_
  
6. This number has 4 digits and rounds to 8.5. The sum of the digits is 18, and the product is 0. The last digit is 5.  
\_\_\_\_\_
  
7. This number rounds to 2.4. All of its digits are prime numbers. The sum of its digits is 17, and the product is 210. The last digit is 7.  
\_\_\_\_\_
  
8. This number rounds to 10. The sum of its digits is 36, and the product equals  $9^4$ .  
\_\_\_\_\_

# Least Common Multiple Practice

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Color: \_\_\_\_\_

1. a. Complete the table below with the multiples of each number:

12							
15							

- b. What is the Least Common Multiple of the two numbers?

- c. Now factor each number and then write the prime factorization to the right.

12

15

12 = \_\_\_\_\_

15 = \_\_\_\_\_

- d. What is the prime factorization of the Least Common Multiple?

$LCM(12, 15) =$

2. a. Complete the table below with the multiples of each number:

9							
15							

- b. What is the Least Common Multiple of the two numbers?

- c. Now factor each number and then write the prime factorization to the right.

9

15

9 = \_\_\_\_\_

15 = \_\_\_\_\_

- d. What is the prime factorization of the Least Common Multiple?

$LCM(9, 15) =$

3. a. Complete the table below with the multiples of each number:

16							
20							

b. What is the Least Common Multiple of the two numbers?

c. Now factor each number and then write the prime factorization to the right.

16

20

$$16 = \underline{\hspace{2cm}}$$

$$20 = \underline{\hspace{2cm}}$$

d. What is the prime factorization of the Least Common Multiple?

$$\text{LCM}(16, 20) =$$

4. a. Complete the table below with the multiples of each number:

8							
14							

b. What is the Least Common Multiple of the two numbers?

c. Now factor each number and then write the prime factorization to the right.

8

14

$$8 = \underline{\hspace{2cm}}$$

$$14 = \underline{\hspace{2cm}}$$

d. What is the prime factorization of the Least Common Multiple?

$$\text{LCM}(8, 14) =$$

More Patterns

Name: \_\_\_\_\_  
Class: \_\_\_\_\_  
Date: \_\_\_\_\_



Figure 1



Figure 2

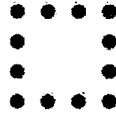


Figure 3

Figure 4

Figure 5

1.

- a) Draw Figures 4 and 5 in the space provided above.
- b) How many dots would be in the 10<sup>th</sup> figure. Write a sentence explaining how you know.
- c) How many dots would be in the 30<sup>th</sup> figure?
- d) How many dots would be in the 100<sup>th</sup> figure?
- e) What is the formula or rule for determining the number of dots in any figure in this pattern? For example, what did you do to the number 100 to determine the number of dots in the 100<sup>th</sup> figure? When writing your rule use the letter  $n$  to represent the figure number.

Number of dots in Figure ( $n$ ) =

Turn over →



Figure 1



Figure 2

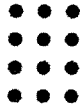


Figure 3

Figure 4

Figure 5

2.

- a) Draw Figures 4 and 5 in the space provided above.
- b) How many dots would be in the 10<sup>th</sup> figure? Write a sentence explaining how you know.
- c) How many dots would be in the 30<sup>th</sup> figure?
- d) How many dots would be in the 100<sup>th</sup> figure?
- e) What is the formula or rule for determining the number of dots for any figure in this pattern? For example, what did you do to the number 100 to determine the number of dots in the 100<sup>th</sup> figure? When writing your rule use the letter  $n$  to represent the figure number.

Number of dots in Figure ( $n$ ) =