



# MATHEMATICS 408

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# I. PART ONE

## Learn Box

I can multiply by a 2-digit number.  
I know operation signs.  
I can simplify fractions.

- 1.1 A prime number can be divided only by 1 and itself.  
Circle the prime numbers.

6    11    17    20    27    29    32



- 1.2 A composite number can be divided by 1, itself, and other numbers.  
Circle the composite numbers.

7    19    21    24    31    35    36



- 1.3 Factors are numbers that when multiplied together produce a given number. Write all of the factors of these numbers.

6 \_\_\_\_\_ 12 \_\_\_\_\_

- 1.4 Multiples are the multiplication facts for a given number.  
Write five multiples of each number.

3 \_\_\_\_\_ 7 \_\_\_\_\_

- 1.5 Follow the steps to multiply to tens' place by two-digits. Solve.

$$\begin{array}{r} 48 \\ \times 63 \\ \hline 144 \\ 2,880 \\ \hline 3,024 \end{array}$$

1. Multiply 48 by 3 ones.
2. Put a 0 place holder in the ones' place below the 4.
3. Multiply 48 by 6 tens.
4. Total the products.

$$\begin{array}{r} 68 \\ \times 24 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \times 38 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ \times 67 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ \times 26 \\ \hline \end{array}$$

1.6 Follow the steps to multiply to hundreds' place by two-digits. Solve.

$$\begin{array}{r} 752 \\ \times 45 \\ \hline 3,760 \\ 30,080 \\ \hline 33,840 \end{array}$$

1. Multiply 752 by 5 ones.
2. Put a 0 place holder in the ones' place below the 0.
3. Multiply 752 by 4 tens.
4. Total the products.

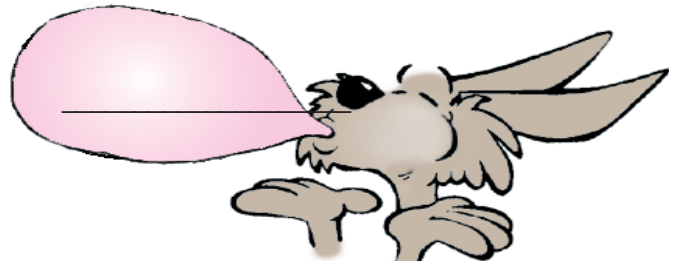
$$\begin{array}{r} 630 \\ \times 85 \\ \hline \end{array}$$

$$\begin{array}{r} 189 \\ \times 36 \\ \hline \end{array}$$

$$\begin{array}{r} 782 \\ \times 24 \\ \hline \end{array}$$

$$\begin{array}{r} 936 \\ \times 12 \\ \hline \end{array}$$

1.7 Write the largest number possible using the digits 3, 2, 5, 9, 1, 0



1.8 Arrange the numbers in number order.

352,649    325,649    25,469    525,694    52,699    365,649

\_\_\_\_\_

1.9 Write the numbers in number words. Remember hyphens and commas.

a. 325,462 \_\_\_\_\_

b. 405,650 \_\_\_\_\_

1.10 Write the number words in digits.

a. three hundred thousand, fifty-six \_\_\_\_\_

b. seventeen thousand, two hundred three \_\_\_\_\_

1.11 Circle the correct operation sign.

a.  $14 \div 7$  ( = ,  $\neq$  ) 3

$12 \times 2$  ( = ,  $\neq$  )  $4 \times 6$

b.  $8 \times 1$  ( = ,  $\neq$  )  $56 \div 7$

$24 - 2$  ( = ,  $\neq$  )  $5 \times 4$

c.  $6 \times 6$  ( > , < )  $7 \times 5$

$16 - 3$  ( > , < )  $4 + 8$

d.  $5 + 7$  ( > , < )  $5 \times 3$

$66 \div 11$  ( > , < )  $6 \times 2$

1.12 Write the answer to the number sentence.

a.  $3 + 8 - 6 =$  \_\_\_\_\_

$5 + 9 + 6 + 2 =$  \_\_\_\_\_

b.  $22 + 5 - 3 =$  \_\_\_\_\_

$63 - 2 + 8 =$  \_\_\_\_\_

c.  $9 + 3 + 8 + 4 =$  \_\_\_\_\_

$12 - 3 + 6 - 2 =$  \_\_\_\_\_

d.  $18 + 5 - 4 + 2 =$  \_\_\_\_\_

$4 + 4 + 2 + 10 =$  \_\_\_\_\_

1.13 Circle the number ...

a. in the hundreds' place.

638,742

b. in the ten thousands' place.

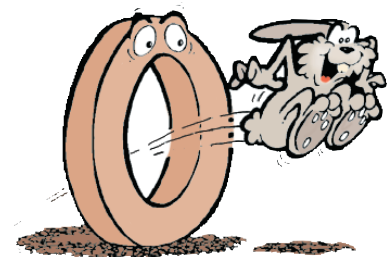
890,361

c. in the ones' place.

256,183

d. in the hundred thousands' place.

745,102



1.14 What is the value of the underlined number?

a. 362,491 \_\_\_\_\_

b. 462,108 \_\_\_\_\_

c. 775,036 \_\_\_\_\_

d. 963,482 \_\_\_\_\_

1.15 Find the product.

a.  $7 \times 3 \times 0 =$  \_\_\_\_\_

b.  $5 \times 0 \times 2 =$  \_\_\_\_\_

c.  $4 \times 4 \times 2 \times 0 =$  \_\_\_\_\_

d.  $3 \times 6 \times 0 \times 8 =$  \_\_\_\_\_

Proper fractions have smaller numerators than denominators.

They are less than a whole number.  $\frac{2}{3} < 1$



Improper fractions have larger numerators than denominators.

They are greater than a whole number.  $\frac{4}{3} > 1$



Mixed numbers are written with a whole number and a fraction.

They are greater than a whole number.  $1\frac{1}{3} > 1$



- 1.16** Describe each one of the following as (a) a proper fraction, (b) an improper fraction, or (c) a mixed number.

$$\frac{15}{8}$$

$$\frac{5}{9}$$

$$\frac{7}{4}$$

$$1\frac{3}{5}$$

$$\frac{1}{8}$$

$$2\frac{1}{3}$$

\_\_\_\_\_

Fractions can be simplified by

changing improper fractions to whole numbers or mixed numbers.

(Divide denominator into numerator.)

changing proper fractions to the smallest equivalent fraction.

(Divide numerator and denominator by same factor.)

$$\frac{9}{4} = 4 \overline{)9} \begin{array}{r} 2 \text{ R}1 \\ \underline{8} \\ 1 \end{array} = 2\frac{1}{4}$$

$$\frac{3}{9} \div \frac{3}{3} = \frac{1}{3}$$

- 1.17** Simplify or reduce these fractions to lowest terms. Show your work.

a.  $\frac{4}{12} =$

$\frac{10}{20} =$

$\frac{12}{18} =$

b.  $\frac{13}{8} =$

$\frac{11}{6} =$

$\frac{9}{7} =$