



MATHEMATICS 401

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I. PART ONE

Learn Box

I know digits and place value to 1,000.
I remember addition and subtraction.

There are 26 letters in the alphabet, but only 10 digits to our number system.

The **digits** are **0, 1, 2, 3, 4, 5, 6, 7, 8, 9.**

Digits mean the same thing to mathematics as the letters of the alphabet mean to reading. Letters can be arranged to form words and digits can be arranged to form numbers.

Digits have value because of their place in the number.



Think of all the numbers you can write using 10 digits.

1.1 Write a number using 3 as the first digit, 4 as the second digit, and 7 as the last digit. _____

What position is the 3 in? _____ 4? _____ 7? _____

Write the number in words. _____

The digit **zero** has no value. We call it a **place holder**.

1.2 Using the number you have written in 1.1, put a zero between the digits 3 and 4. _____

What position is the 3 in? _____ 0? _____ 4? _____ 7? _____

Write the number in words. _____

Numbers that have more than one digit are called **multi-digit** numbers.

1.3 Write a multi-digit number with 8 in the thousands' place, 4 in the ones' place, 7 in the tens' place, and 0 in the hundreds' place. _____

1.4 Write the answer to the facts.

Do you remember your facts?



$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ + 9 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ + 5 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ + 9 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ + 6 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ + 9 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ + 0 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ + 6 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 6 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ + 4 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ + 0 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ + 5 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ + 7 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ + 9 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ + 7 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ + 7 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 0 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ + 7 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ + 0 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ + 5 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ + 9 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ + 8 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ + 0 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ + 8 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ - 9 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ - 8 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ - 3 \\ \hline \end{array} \quad \begin{array}{r} 15 \\ - 9 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ - 9 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ - 8 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ - 6 \\ \hline \end{array} \quad \begin{array}{r} 14 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 0 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ - 7 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ - 9 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ - 5 \\ \hline \end{array} \quad \begin{array}{r} 16 \\ - 9 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ - 0 \\ \hline \end{array} \quad \begin{array}{r} 16 \\ - 8 \\ \hline \end{array} \quad \begin{array}{r} 14 \\ - 6 \\ \hline \end{array} \quad \begin{array}{r} 17 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ - 2 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ - 0 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ - 4 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ - 1 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ - 8 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ - 4 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ - 9 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ - 5 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$$

You should know all of your addition and subtraction facts by now.

The numbers that we add have special names.

$$\begin{array}{r} 24 \text{ addend} \\ 35 \text{ addend} \\ + 64 \text{ addend} \\ \hline 123 \text{ sum} \end{array}$$

In addition, the numbers that are added are named **addends**, and the answer is named the **sum**.



Find the sum of these addends.

1.5 a. $\begin{array}{r} 576 \\ + 247 \\ \hline \end{array}$ b. $\begin{array}{r} 239 \\ + 506 \\ \hline \end{array}$ c. $735 + 657 = \underline{\quad}$ d. $368 + 754 = \underline{\quad}$

1.6 a. $\begin{array}{r} 672 \\ + 391 \\ \hline \end{array}$ b. $\begin{array}{r} 538 \\ + 295 \\ \hline \end{array}$ c. $663 + 305 = \underline{\quad}$ d. $593 + 278 = \underline{\quad}$

1.7 a. $\begin{array}{r} 73 \\ 59 \\ + 42 \\ \hline \end{array}$ b. $\begin{array}{r} 20 \\ 46 \\ + 73 \\ \hline \end{array}$ c. $56 + 82 + 40 = \underline{\quad}$ d. $39 + 82 + 16 = \underline{\quad}$

1.8 a. $\begin{array}{r} 85 \\ 26 \\ + 42 \\ \hline \end{array}$ b. $\begin{array}{r} 64 \\ 20 \\ + 17 \\ \hline \end{array}$ c. $56 + 23 + 44 = \underline{\quad}$ d. $37 + 41 + 65 = \underline{\quad}$

The numbers that we subtract have special names.

$$\begin{array}{r} 296 \text{ minuend} \\ - 147 \text{ subtrahend} \\ \hline 149 \text{ difference} \end{array}$$

In subtraction, the number that we begin with is named the **minuend**, the number being subtracted is named the **subtrahend**, and the answer is the **difference**.



Find the difference of the minuend and subtrahend.

1.9 a. $\begin{array}{r} 635 \\ - 238 \\ \hline \end{array}$ b. $\begin{array}{r} 421 \\ - 135 \\ \hline \end{array}$ c. $624 - 362 = \underline{\hspace{2cm}}$ d. $864 - 576 = \underline{\hspace{2cm}}$

1.10 a. $\begin{array}{r} 645 \\ - 284 \\ \hline \end{array}$ b. $\begin{array}{r} 588 \\ - 275 \\ \hline \end{array}$ c. $956 - 763 = \underline{\hspace{2cm}}$ d. $525 - 184 = \underline{\hspace{2cm}}$

1.11 a. $\begin{array}{r} 946 \\ - 308 \\ \hline \end{array}$ b. $\begin{array}{r} 406 \\ - 219 \\ \hline \end{array}$ c. $307 - 243 = \underline{\hspace{2cm}}$ d. $754 - 647 = \underline{\hspace{2cm}}$

1.12 a. $\begin{array}{r} 763 \\ - 574 \\ \hline \end{array}$ b. $\begin{array}{r} 839 \\ - 472 \\ \hline \end{array}$ c. $931 - 765 = \underline{\hspace{2cm}}$ d. $468 - 321 = \underline{\hspace{2cm}}$