



1-08

## Section 1 Vocabulary

### A. Read the text and look at the picture.

**Arithmetic** is a part of mathematics. It involves four basic **operations**, +, -, ×, ÷. We call these operations in English, **addition** (+), **subtraction** (-), **multiplication** (×), **division** (÷). Each arithmetic operation has a **result**. We show the result after the **equals** sign (=).

We use arithmetic so we can:

- **add** one number **to** [and] another number; for example,  $2 + 2 = 4$
- **subtract** one number **from** another number; for example,  $4 - 2 = 2$
- **multiply** one number **by** another number; for example,  $2 \times 3 = 6$
- **divide** one number **by** another number; for example,  $6 \div 3 = 2$

However, when we talk about the first three operations, we don't normally use the verbs *add*, *subtract* and *multiply*. We say **plus**, **minus** and **times** instead. So we describe the first three operations above as:

- *two plus two equals four*
- *four minus two equals two*
- *two times three equals six*

With division, we sometimes turn the **sum** around and use **into**. So we say: *three into six equals two*.

In a long sum, do the calculations in order from left to right. So  $3 \times 8 - 7$  is the same as  $3 \times 8 = 24$  then  $- 7 = 17$ . If you want addition or subtraction to happen first, put that part of the sum inside **brackets** ( ). So  $3 \times (8 - 7)$  is the same as  $8 - 7 = 1$  then  $\times 3 = 3$ . Remember this rule as *brackets over division, multiplication, addition, subtraction* or **BODMAS**.

### B. Write each sum in numbers and arithmetic signs.

1. five times two equals ten
2. fifteen divided by three equals five

3. twenty-one plus fourteen equals thirty-five
4. six thousand twenty-four minus one thousand three hundred seventy-nine equals four thousand six hundred forty-five
5. three times eight minus seven equals seventeen
6. three times open brackets eight minus seven close brackets equals three
7. ninety-five point six minus twenty-seven point one equals sixty-eight point five
8. one hundred forty-four divided by six equals twenty-four
9. ten times ten times one thousand equals one hundred thousand
10. a quarter plus a half equals three-quarters
11. one-third minus one-sixth minus one-ninth equals one-eighteenth
12. thirty-nine point seven five four minus zero point eight one two equals thirty-eight point nine four two

**C. Complete the sentences about the sums in Exercise B. Use the words in the box only once. There are two extra words.**

addition / decimals / division / fraction / multiplication / result / subtraction

1. The <sup>9</sup>ninth one is a <sup>7</sup>\_\_\_\_\_ sum.
2. The <sup>3</sup>third one is an \_\_\_\_\_ sum.
3. The <sup>4</sup>fourth one is a \_\_\_\_\_ sum.
4. The \_\_\_\_\_ of the <sup>5</sup>fifth one is seventeen.
5. The <sup>7</sup>seventh one involves \_\_\_\_\_.

**Section 2 Reading**

**How to use Supercalc**

Your new pocket calculator is easy to use. You can add, subtract, multiply and divide in a moment. Do some simple calculations first, then try some harder ones.

**How to turn on Supercalc**

Press the AC/ON key.

**How to calculate with whole numbers**

*Example 1: Add 2 and 2.*

Press the 2 key, then the + key, then 2 again. Finally, press =. The result, 4, appears on the screen.

*Example 2: Multiply 2 by 3.*

Press the 2 key, then the × key, then 3. Finally, press =. The result, 6, appears on the screen.

**How to correct a mistake**

If you make a mistake, press the DEL (for delete) key. This removes the last number or sign.

**How to clear the screen**

Before you do a calculation, remove any numbers from the screen. In other words, *clear the account*. Press AC/ON. (AC = account clear)

**How to calculate with decimals**

Press the numbers before the decimal, then press the decimal point key (.) and then the numbers after the decimal.

*Example 3: Add 26.7 and 43.5.*

Press 2, 6, ., 7, +, 4, 3, ., 5, = 70.2

**How to calculate with percentages**

What is 50%? It is the same as a half or  $\frac{1}{2}$ , which is 1 divided by 2. You can check this on Supercalc. Press 1, ÷, 2 then %. The number 50 appears on the screen. Don't press the equals sign when you are calculating percentages. Try another one. If you buy something for \$10 and the shopkeeper gives you a discount of \$1.50, what percentage discount is that? Press 1.50 then ÷ then 10 then %. The number on the screen (15) is the percentage.

**A. Choose the best answer in each case.**

1. This text comes from:
  - a. a dictionary
  - b. an instruction leaflet
  - c. an encyclopedia
  - d. a website
2. Use the AC/ON key to:
  - a. turn on Supercalc
  - b. show the result
  - c. clear the screen
  - d. turn on Supercalc and clear the screen
3. Use the DEL key to:
  - a. clear the screen
  - b. remove the last sign
  - c. remove the last number
  - d. remove the last sign or number
4. To add 26.7 and 43.5, press:
  - a. 8 keys
  - b. 9 keys
  - c. 10 keys
  - d. 11 keys

5. Choose the correct set of keys to calculate a percentage on this calculator.
- |   |   |
|---|---|
| a. first number, second number, %                 | c. first number, divide, second number, %         |
| b. first number, divide, second number, equals, % | d. first number, divide, second number, %, equals |

**B. Study the following example sentences.**

**Talking about quantity**

Do **some** simple calculations first, then try **some** harder ones. Before you do a calculation, remove **any** numbers from the screen.

**C. Let's learn more words expressing quantity! Complete the sentences using the best word or phrase in the box. Use each word or phrase only once.**

some / any / many / much / no / few / a few / little / every / a lot of

- \_\_\_\_\_ solids are metals like iron, copper, and gold.
- You get \_\_\_\_\_ space for data with a big hard disk drive in your computer.
- This shelf can hold twice as \_\_\_\_\_ books as that one.
- There is \_\_\_\_\_ rule without an exception.
- I have very \_\_\_\_\_ knowledge of biology.
- Fortunately, I've never had \_\_\_\_\_ trouble with my PC.
- Wait \_\_\_\_\_ seconds before the Web page is displayed.
- The calculation is \_\_\_\_\_ too difficult for me to solve.
- There are still very \_\_\_\_\_ hybrid cars in Japan.
- The Web page is updated \_\_\_\_\_ 24 hours.



**Section 3 Listening**

**A. Listen and complete the summary of the reading text in Section 2. Write one word in each space.**

With Supercalc you can add, subtract, multiply and \_\_\_\_\_ in a moment. Turn on Supercalc with the AC/ON \_\_\_\_\_. Press this key also before you do a \_\_\_\_\_ to clear the screen (AC = \_\_\_\_\_ clear). If you make a mistake, press the \_\_\_\_\_ key. This removes the last number or \_\_\_\_\_.



**B. Listen to the conversation and choose the best answer in each case.**

- What kind of calculation does the man want to do?
  - addition
  - subtraction
  - multiplication
  - division
- What result does the man get when he does the calculation?
  - 50%
  - 8%
  - 6.25
  - 4
- What is the correct result of the man's calculation?
  - 1 percent
  - $\frac{4}{8}$
  - 50%
  - 6.25

