

$$2 + 3 = 5$$

plus

$$3 - 2 = 1$$

minus

$$2 \times 3 = 6$$

times

$$6 \div 2 = 3$$

divided by

$$4 + 3 = 7$$

equals

hundred

1,200

How do they say it?

| Symbol | Interpretation | Example |
|-----------|--|---|
| = | equals | $1/5 = 0.2$ One fifth equals zero point two. |
| + | plus, add | $A + B = C$ A plus B equals C. Add A and B to get C. |
| - | minus, subtract | $A - B = C$ A minus B is C. Subtract B from A to get C. |
| \times | multiplied by, times | $A \times B = C$ A multiplied by B comes to C. |
| $\div, /$ | divided by, over | $A \div B = C$ A divided by B equals C. $A / B = C$ A over B is C. |
| 1,200 | one thousand two hundred or twelve hundred | The new equipment costs twelve hundred dollars. |

Get ready!

- 1 Before you read the passage, talk about these questions.

- What is the difference between adding and subtracting?
- What is the difference between multiplying and dividing?

Reading

- 2 Read the poster. Then, mark the following statements as true (T) or false (F).

- Five times three equals five multiplied by three.
- Eight divided by two is six.
- To get a larger amount of material, someone must add more material.

Vocabulary

- 3 Read the sentence pairs. Choose which word or phrase best fits each blank.

- 1 multiplied by / plus

- A Ten _____ four equals forty.
B Six _____ four equals ten.

- 2 over / minus

- A One quantity _____ another is the same as subtracting one quantity from another.
B In division, one quantity is _____ another.

- 3 times / divided by

- A Six _____ two equals three.
B Six _____ two equals twelve.

- 4 Fill in the blanks with the correct words from the word bank.

Word BANK

equals subtract hundred times add

- To get a smaller quantity, _____ one quantity from another.
- Seven minus two _____ five.
- The factory employs three _____ people.
- A quantity _____ another quantity is multiplication.
- The office needs to _____ ten desks for the new workers.

- 5 Listen and read the poster again. What is an alternate way to express the quantity "one thousand five hundred"?

Listening

- 6 Listen to a conversation between an engineer and an assistant. Choose the correct answers.

- What is the conversation mostly about?
 - where to find the correct measurements for a project
 - a system malfunction caused by a mathematical error
 - instructions for writing measurements
 - which type of mathematical operation to use
- What does the man need to do?
 - subtract
 - add
 - multiply
 - divide

- 7 Listen again and complete the conversation.

Engineer: Hey, Lou? Where are those aluminum rods
1 _____?

Assistant: They're on the workbench.

Engineer: I checked. They are only sixteen 2 _____.

Assistant: That's right. 3 _____ two centimeters from the previous measurements, like you asked.

Engineer: I wanted you to 4 _____ centimeters.

Assistant: Oh, I misunderstood. 5 _____ eighteen centimeters *minus* two.

Engineer: That's okay. 6 _____ new rods as soon as you can.

Speaking

- 8 With a partner, act out the roles below based on Task 7. Then, switch roles.

USE LANGUAGE SUCH AS:

Where are ...?

I ..., like you asked

So, they're supposed to be ...

Student A: You are an engineer. Talk to Student B about:

- an item you asked for
- a problem with the measurement of the item
- what operations he or she is supposed to perform

Student B: You are an assistant. Talk to Student A about a problem with the measurement of an item.

Writing

- 9 Use the poster and the conversation from Task 8 to fill out the email from an engineer to an assistant.

Hi Lou,

There's a problem with the tiles. I need ones that are _____ across. However, these are _____ across.

I think you used the wrong operation when you calculated the measurements. You were supposed to _____ multiply by two centimeters to the previous measurement. Instead, you _____.

Please watch out for these errors in the future.

Nell