Study the following words.

symbol (**sim**-buhl) - something that stands for or represents something else. Symbols can be letters, words, marks, or pictures.

letter (**let**-ur) - a symbol that stands for a sound of speech; part of an alphabet

word (**wurd**) - a letter or group of letters that stand for spoken sounds or a group of sounds and has meaning and is used as a single piece of speech

mark (**mark**) - a written symbol, like a question mark or other punctuation marks like a comma or period.

sign (**sine**) - a symbol that stands for something, like a dollar sign, or a plus sign.

Say each word out loud and write it in the blank.

symbol_____
letter_____
word_____
mark_____
sign_____

Examples:

Symbols: + ÷ $ B Q bird tree 3 7 ♥ ▲ ♣ ,? !

Marks: ,? !

Letters: B Q

Words: bird tree

Signs: + ÷ $

Write each definition in your own words.

symbol

letter

word

mark

sign

Matching.

symbol

                                        a symbol that stands for a sound of speech

word

                                        a symbol, like a comma

letter

                                        something that stands for or represents something else

sign

                                        a written symbol, like a question mark

                                        a letter or group of letters that stand for a spoken sound

mark

Put a check mark in each column that correctly describes these items.

Items	Symbol	Letter	Word	Mark	Sign
Q					
G					
house					
+					
cow					
log					
b					
÷					
*					
×					
○					
μ					
ϕ					
@					
/					
⌐					
" "					
?					

Write 6 examples of each.

	symbol	letter	word	mark	sign
1.					
2.					
3.					
4.					
5.					
6.					

Review

Fill in the blanks with vocabulary words.

1.   Boat   This is a _____ or a _____.

2.   ;   This is a _____ or a _____.

3.   +   This is a _____ or a _____.

4.   r   This is a _____ or a _____.

5. $ This is a _____ or a _____.

6.   7   This is a _____.

7.   ÷   This is a _____ or a _____.

8.   ,   This is a _____ or a _____.

9.   This is a _____.

Study the following symbols.

+   This is a plus sign. It means plus, or add.
       Example: 2 + 3 means 2 plus 3.

−   This is a minus sign. It means minus or subtract.
       Example: 7 − 2 means 7 minus 2.

×   This is a times sign. It means times, or multiplied by.
       Example: 3 × 4 means 3 times 4.

•   This also means times. Example: 2 • 3 means 2 times 3.

∗   This also means times. It is often used in computer programming.
       Example: 3 * 4 means 3 times 4

÷   This means divided by.
       Example: 10 ÷ 5 means 10 divided by 5.

$\overline{}$
)   This means divided by or divided into.

       Example: $4\overline{)12}$ means 12 divided by 4, or 4 into 12

       Notice how when you say divided by, you read the problem backwards,
           12 divided by 4.

Write 5 examples using each symbol.

$+$

$-$

$\times$

$\bullet$

$*$

$\div$

$\overline{\smash{)}}$

Matching.

+	times
−	times
×	times
*	plus
•	divided by
÷	divided by
$\overline{)}$	minus

Write the following in words two different ways.

1.　$3\overline{)15}$　　15 divided by 3.　　3 into 15.

2.　$4\overline{)20}$

3.　$6\overline{)36}$

4.　$2\overline{)14}$

5.　$5\overline{)35}$

Write the following in words.

1. a. $4 \div 20$
   b. $4\overline{)20}$

2. a. $2\overline{)14}$
   b. $2 \div 14$

3. a. $3 \div 21$
   b. $3\overline{)21}$

4. a. $4\overline{)16}$
   b. $4 \div 16$

Study the following symbols.

=   This is an equal sign. It means "is equal to", or "equals".
              Example: $2 + 2 = 4$ means 2 plus 2 <u>equals</u> 4
              or 2 plus 2 <u>is equal to</u> 4.

>   This is a greater than sign. It means "is greater than".
              Example: $3 > 2$ means 3 <u>is greater than</u> 2.

<   This is a less than sign. It means "is less than".
              Example: $1 < 4$ means 1 <u>is less than</u> 4.

For less than and greater than, the "mouth" would eat the bigger number.

6   ⟩   **1**   **2**   ⟨   **10**

6 is greater than 1   10 is bigger, so 2 is less than 10

Draw two examples of each, showing the less than and greater than symbols as mouths of an animal.

less than

greater than

Write three examples using the = sign.

Matching.

=   greater than

<   less than

>   is equal to

Put the correct sign in the box.

1.   3   [ ]   6   2.   5   [ ]   2

3.   4   [ ]   4   4.   8   [ ]   1

5.   9   [ ]   12   6.   7   [ ]   7