Variables and Expressions

A **variable** is a letter or symbol. It represents an unknown amount that can change.

You can represent mathematical expressions with words and symbols.

Operation	+	—	×	÷
Word expression	the sum of 9 and 3	the difference between 9 and 3	the product of 9 and 3	9 divided by 3
Algebraic expression	9 + 3	9 - 3	3 × 9	9 ÷ 3
Other ways of saying the word expression	3 added to 9 3 more than 9	3 subtracted from 9 3 less than 9	9 multiplied by 3 3 times 9	9 separated into 3 equal parts

Complete the numerical expression for each of the following word expressions.

 the sum of 12 and 8 12 8 	2. the difference between 20 and 620 6	 the quotient of 32 and 16 32 16
4. 7 less than 21	5. 2 more than 10	6. 84 divided by 4
21 7	10 2	84 4

Circle the letter of the correct word expression for each algebraic expression.

7.	5 × (15 – 13)	a. 5 times 13 subtracted from 15	b. 5 times 15 minus 13
8.	4×9	a. 4 more than 9	b. 4 times 9
9.	11 + 8 - 2	a. 11 more than 8 minus 2	b. 11 minus 8 plus 2
10.	(45 + 3) × 2	a. the product of 2 and 45 plus 3	b. 45 more than 3 times 2
11.	36 ÷ 6	a. 36 less 6	b. 6 equal parts of 36
12.	8+2-5	a. 5 less than $8 + 2$	b. 8 + 2 subtracted from 5