

**"I Can Translate a Written Mathematical Expression into a Symbolic Expression."
Writing Numerical and Algebraic Expressions and Equations**

Operation	Key Words	Example	Translation
Addition (+)	Plus	Seventeen plus thirty-seven	
	More than	Ten more than x	
	Increased by	A number increased by twenty	
	Added to	Eleven added to forty-five	
	SUM	The sum of 20 and j	

Subtraction (-)	Minus	A number minus seven	
	Decreased by	Four decreased by m	
	Fewer than	2 fewer than 10	
	Less than	Five less than eight	
	Subtracted from	Some number subtracted from ten	
	DIFFERENCE	The difference of 19 and 12	

Multiplication (•)	Times	Five times a number	
	Twice/Double	Twice a number / Double a number	
	Triple	Triple a number	
	PRODUCT	The product of three and twelve	

Division (÷)	Divided by	One hundred divided by 20	
	Divided into	Six divided into 30	
	Split Into Groups	24 split into 4 groups	
	Cut in half	A number cut in half	
	QUOTIENT	The quotient of a number and 2	

Power (\square^2)	Square	x squared	
	Cube	6 cubed	
	Raised to the Power	t raised to the fifth power	

Translate the following algebraic expressions.

1 The sum of 15 and v

2 The quotient of a number and 7

3 A number to the eighth power

4 8 subtracted from a number

5 Six times a number increased by 9

6 The difference of 7 and 3 times a number

7 17 less than a number cubed

8 A number cut in half decreased by 5

9 The product of 4 and a number squared

10 $\frac{x^3}{2} - 8$

11 $5(x + y)$

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Writing Numerical and Algebraic Expressions and Equations

Operation	Key Words	Example	Translation
Addition (+)	Plus	Seventeen plus thirty-seven	$17 + 37$
	More than	Ten more than x	$x + 10$
	Increased by	A number increased by twenty	$a + 20$
	Added to	Eleven added to forty-five	$45 + 11$
	SUM	The sum of 20 and j	$20 + j$

Subtraction (-)	Minus	A number minus seven	$n - 7$
	Decreased by	Four decreased by m	$4 - m$
	Fewer than	2 fewer than 10	$10 - 2$
	Less than	Five less than eight	$8 - 5$
	Subtracted from	Some number subtracted from ten	$10 - m$
	DIFFERENCE	The difference of 19 and 12	$19 - 12$

Multiplication (•)	Times	Five times a number	$5 \cdot p$ $5p$
	Twice/Double	Twice a number / Double a number	$2 \cdot x$ $2x$
	Triple	Triple a number	$3 \cdot g$ $3g$
	PRODUCT	The product of three and twelve	$3 \cdot 12$ $3(12)$

Division (÷)	Divided by	One hundred divided by 20	$100 \div 20$ $\frac{100}{20}$
	Divided into	Six divided into 30	$30 \div 6$ $\frac{30}{6}$
	Split Into Groups	24 split into 4 groups	$24 \div 4$ $\frac{24}{4}$
	Cut in half	A number cut in half	$a \div 2$ $\frac{a}{2}$
	QUOTIENT	The quotient of a number and 2	$q \div 2$ $\frac{q}{2}$

Power (\square^2)	Square	x squared	x^2
	Cube	6 cubed	6^3
	Raised to the Power	t raised to the fifth power	t^5

Translate the following algebraic expressions.

1 The sum of 15 and v

$$15 + v$$

2 The quotient of a number and 7

$$x \div 7$$

3 A number to the eighth power

$$m^8$$

4 8 subtracted from a number

$$n - 8$$

5 Six times a number increased by 9

$$6 \cdot g + 9$$

6 The difference of 7 and 3 times a number

$$7 - 3 \cdot m$$

7 17 less than a number cubed

$$a^3 - 17$$

8 A number cut in half decreased by 5

$$\frac{c}{2} - 5$$

9 The product of 4 and a number squared

$$4 \cdot h^2$$

10 $\frac{x^3}{2} - 8$

x to the 3rd power divided by 2 minus 8

11 $5(x + y)$

5 times the quantity x plus y