

EXPRESSIONS

NUMERICAL AND VERBAL

In mathematics we can write a sentence or verbal phrase as an *Expression*. Expressions are very important in algebra and help us connect words to math.

EXAMPLE

Joe is going to buy 4 chocolates that cost Rs.5.00 each.

We know how many chocolates she is going to buy and how much they cost. These amounts are called **CONSTANTS**. Because they constantly stay the same we can write this sentence as a verbal expression and a numerical expression.

Verbal expression \longrightarrow 4 times 5

A **Verbal expression** contains words to explain mathematics.

Numerical expression \longrightarrow 4×5

A **Numerical expression** contains a combination of constants subtraction, multiplication, and division.

THE TABLE SHOWS SOME COMMON WORDS AND PHRASES AND THEIR RELATED OPERATIONS.

+	-	\times	\div
plus	minus	times	divide
the sum of	the difference of	multiplied by	the quotient of
increased by	decreased by	the product of	divided by
added to	subtracted from	groups of	among
more than	less than	of	the ratio of

WRITE A NUMERICAL EXPRESSION FOR EACH VERBAL EXPRESSION.

1. 6 LESS THAN 9
 $9 - 6 = \boxed{3}$

2. THE SUM OF 8 AND 2
 $8 + 2 = \boxed{10}$

3. 6 TIMES 3
 $6 \times 3 = \boxed{18}$

4. 14 DIVIDED BY 7
 $14 \div 7 = \boxed{2}$

5. THE SUM OF 5 AND 4
 $5 + 4 = \boxed{9}$

6. THE RATIO OF 12 AND 4
 $12 : 4 = \boxed{3:1}$

WRITE A VERBAL EXPRESSION FOR EACH NUMERICAL EXPRESSION.

1. $14 + 2 =$ the sum of 14 and 2

2. $3 \times 4 =$ 3 times 4

3. $8 \div 4 =$ 8 divided by 4

4. $9 - 3 =$ 3 less than 9