

By:
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Addition \rightarrow (+)

Subtraction \rightarrow (-)

Division \rightarrow (/) (\div) (:)

Multiplication \rightarrow (\times) (*) (.)

Fraction \rightarrow ($\frac{1}{4}$) ($\frac{1}{2}$) ($\frac{3}{4}$)

Decimal \rightarrow (0.5) (0.05)

Percentage \rightarrow (%)

addition

- add
- more
- plus
- make
- sum
- total
- altogether



division

- divide
- divided by
- divided into
- share
- share equally
- equal groups of



multiplication

- lots of
- times
- multiply
- groups of
- product
- multiplied by
- multiple of
- repeated addition
- array



subtraction

- subtract
- minus
- leave
- less
- take away
- difference between

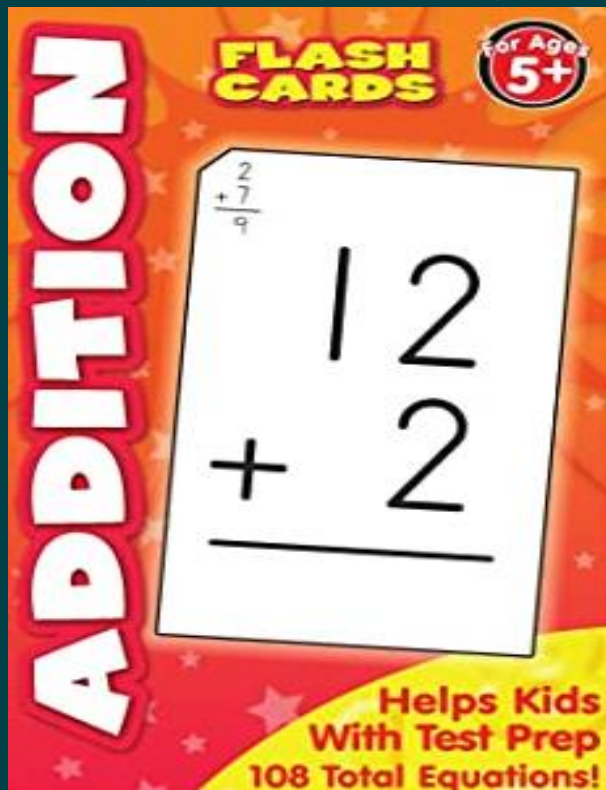


equals

- makes
- total
- same as
- equivalent
- balances



Function and Symbol of *Addition*



What is *Addition*?

Addition [Plus (+)]

- An addition is the act of adding something new, like a baby — a new *addition* to your family — or what you do in math class: the *addition* of columns of numbers to get the sum.

How to indicate *Addition*?

- a. The act, process, or result of adding.
- b. A mathematical operation in which the sum of two numbers or quantities is calculated.
- c. Usually indicated by the symbol (+).

6 Example:

Words	→	twenty-three	plus	sixty-nine	is	ninety-two
Symbols	→	23	+	69	=	92

How to say in Q & A?

First way:

Q : What is twenty-three plus sixty-nine?

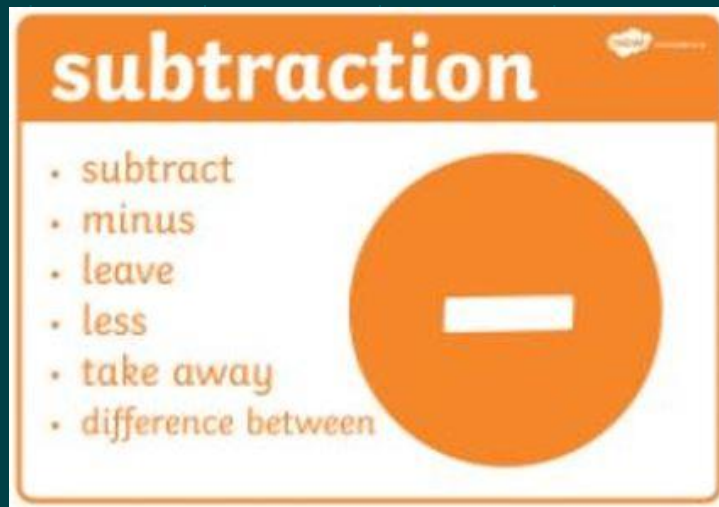
A : It's ninety-two

Another way:

Q : How much is twenty-three plus sixty-nine?

A : It makes ninety-two

Function of *Subtraction*



What is *Subtraction*?

Subtraction [Minus (-)]

- In math, subtraction is when you take one number away from another number. In other words, the *subtraction* of *two* from *five* gives you an answer of *three*.

How to indicate *Subtraction*?

1. An act or process of subtracting.
2. A mathematical operation in which the difference between two numbers or quantities is calculated.
3. Usually indicated by the symbol $(-)$

9 Example:

Words	→	seventy one	minus	fourteen	is	fifty-seven
Symbols	→	71	—	14	=	57

How to say in Q & A?

First way:

Q : What is seventy-one minus fourteen?

A : It's fifty-seven

Another way:

Q : How much is seventy-one minus fourteen?


A : It makes fifty-seven

Function and Symbol of *Division*



division

- divide
- divided by
- divided into
- share
- share equally
- equal groups of



What is *Division*?

Division [divided by (\div or $/$ or $:$)]

- Division is a mathematical operation, the inverse of multiplication, in which the quotient of two numbers or quantities is calculated. Usually written: $a \div b$ or a/b .

12 Example:

Words	→	Fifty	divided by	Twenty-five	is	two
Symbols	→	50	÷	25	=	2

How to say in Q & A?

First way:

Q : What is fifty divided by twenty-five?

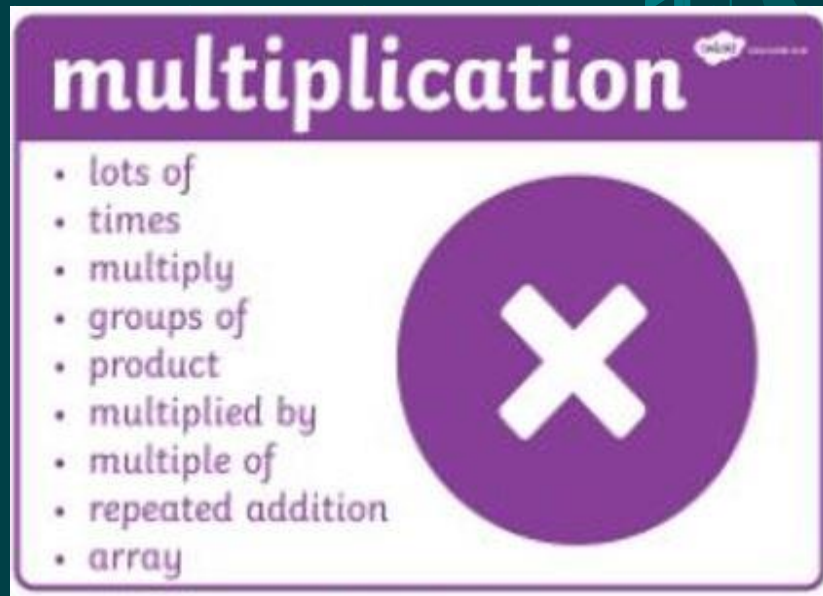
A : It's two

Another way:

Q : How much is fifty divided by twenty-five?

A : It makes two

Function and Symbol of *Multiplication*



What is *Multiplication*?

Multiplication [multiplied by or times (\times or \bullet or $$)]*

- In math, multiplication is when you add a number to itself a certain number of times. The *multiplication* of 3 times 2 gives you an answer of 6.
- If you put two bunnies in a cage and end up with six, that is a different type of *multiplication*.
- Multiplication is an arithmetical operation, defined initially in terms of repeated addition, usually written $a \times b$, $a \cdot b$, $a * b$, or ab , by which the product of two quantities is calculated.

15 Example:

Words	→	thirty-two	times	three	is	ninety-six
Symbols	→	32	x	3	=	96

How to say in Q & A?

First way:

Q : What is thirty-two times three?

A : It's ninety-six

Another way:

Q : How much is thirty-two times three?

A : It makes ninety-six

Fractions, Decimals and Percentages

Picture	Fraction	= Fraction	Percentage	Decimal
	$\frac{1}{2}$	$\frac{50}{100}$	50%	0.5
	$\frac{1}{4}$	$\frac{25}{100}$	25%	0.25
	$\frac{1}{5}$	$\frac{20}{100}$	20%	0.2
	$\frac{1}{10}$	$\frac{10}{100}$	10%	0.1

Fractions Mat



1 one whole



$1/6$ one sixth



$1/2$ one half



$1/7$ one seventh



$1/3$ one third



$1/8$ one eighth



$1/4$ one quarter



$1/9$ one ninth



$1/5$ one fifth



$1/10$ one tenth



What is *Fractions*?

- *Fraction* is one or more of the equal parts of a whole; a number usually expressed in the form a/b .
- *Fraction* represent equal parts of a whole or a collection.
- *Fraction* of a whole: when we divide a whole into equal parts, each part is a **fraction** of the whole.

Symbol	Words
$\frac{1}{2}$	A half
$\frac{1}{4}$	A fourth or A quarter
$\frac{3}{4}$	Three fourth
$\frac{5}{4}$	Five quarters
$\frac{4}{5}$	Four fifth
$\frac{5}{6}$	Five sixth
$\frac{1}{8}$	An eighth
$\frac{9}{12}$	Nine twelfth
$2\frac{1}{2}$	Two and a half
$5\frac{1}{4}$	Five and a fourth or Five and a quarter
$\frac{3}{19}$	Three nineteenth or Three over nineteen

Example:



Example: more complex fractions

Symbol	Words
$2\frac{1}{2}$	Two and a half
$5\frac{1}{4}$	Five and a fourth or Five and a quarter
$1\frac{2}{3}$	One and two thirds
$\frac{226}{405}$	Two hundred and twenty-six <i>over</i> four hundred and five

- From 1/11 onwards always use “*one*” not “*a or an*”.
- One eleventh not **an** eleventh

Common decimal separators

Decimal point:

0.1

Decimal comma:

0,1

What is *Decimal*?

- *Decimal*: any number shown with a decimal point
- *Decimal*: a number based upon tenths or hundredths

Symbol	Words
0.5	Zero point five
10.95	Ten point nine five
1,000.5	One thousand point five
38.123	
2,003.009	Two thousand and three point zero zero nine

How to say 0

❖ naught

❖ oh

❖ zero

Example:

Symbol	Words
2.05	two point <i>naught</i> five
	two point <i>oh</i> five
	two point <i>zero</i> five



What is *Percentage*?

Percentage [per cent (%)]

- *Percent*: the word percent comes from Latin and means **for each hundred** or **per hundred**.
- A percentage is a ratio of a number to 100.
- The symbol % is used to indicate a percent.
- The word *percent* means **per cent, per hundred**.
- A percentage is a portion of a whole expressed as a number between 0 and 100 rather than as a fraction.
- All of something is 100 percent, half of it is fifty percent, and none of something is zero percent

Example:

Symbol	Words
55%	fifty-five per-cent
100%	a hundred per-cent or one hundred per-cent
40%	forty per-cent
4.25%	four point two five per-cent
1.025%	one point oh (zero) two five per-cent

27 Example:

Words	→	Ten	Per-cent of	One hundred	is	Ten
Symbols	→	10	% x	100	=	10

How to say in Q & A?

First way:

Q : What is ten per-cent of one hundred?

A : It's ten

Another way:

Q : How much is ten per-cent of one hundred?

A : It makes ten or ten per-cent of one hundred is ten

Let's Practice 1

Write following *symbols* into *words*.

Example: $6 + 15 = \dots \rightarrow$ six plus fifteen is twenty-one

No.	Symbol	Words
1	$35 : 5 = \dots$	
2	$130 \times 8 = \dots$	
3	$1002 + 403 = \dots$	
4	$709 - 38 = \dots$	
5	$67 \times 25 = \dots$	
6	$700 : 2 = \dots$	
7	$50\% \times 1500 = \dots$	
8	$\frac{5}{7}$	
9	$\frac{95}{150}$	
10	$652 - 202 = \dots$	

Let's Practice 2

Complete these conversation!

• P : _____?

Q : Seven and five is twelve.

• A : How much is one hundred minus fifty-six?

B : _____

• P : _____?

Q : Twenty-nine times three makes eighty-seven.

• A : What is one thousand and two hundred divided by fifty?

B : _____

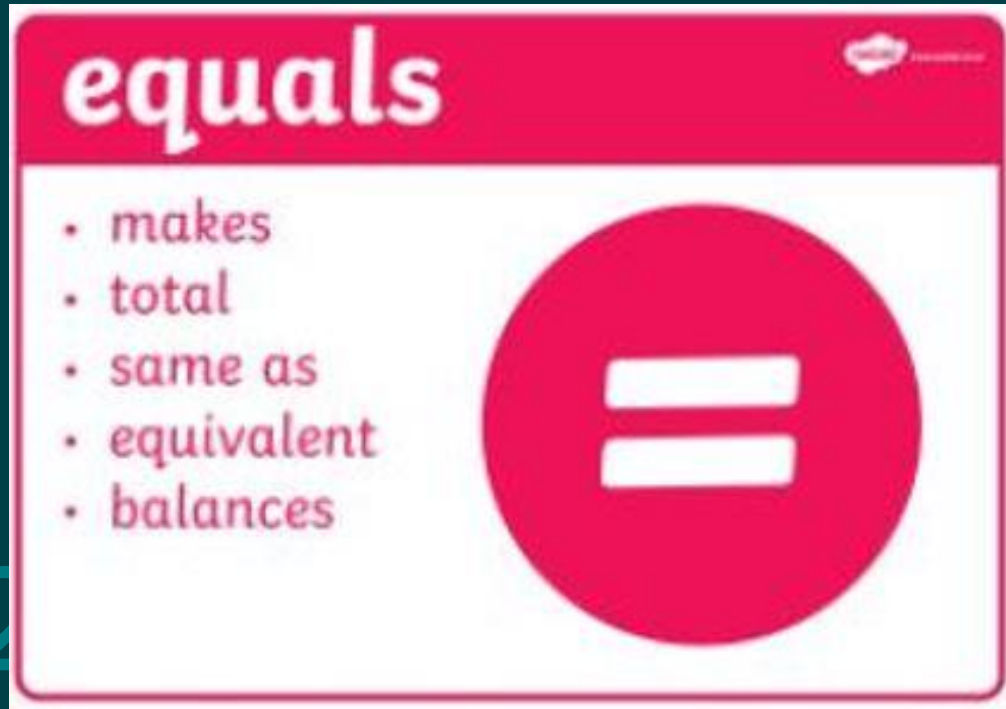
• P : _____?

Q : Twenty percent of ten thousand is two thousand.

Let's Practice 3

No.	Symbols:	Written/Words:
1	$81 \div 9 = 9$	Eighty one divided by nine is nine
2	$15 + 48 = \dots\dots\dots$	
3	$13 \times 3 = \dots\dots\dots$	
4	$97 - 24 = \dots\dots\dots$	
5	$15\% \times 100 = \dots\dots\dots$	
6	$86 - 17 = \dots\dots\dots$	
7	$62 + 37 = \dots\dots\dots$	
8	$25\% \times 250 = \dots\dots\dots$	
9	$85 \div 5 = \dots\dots\dots$	
10	$22 \times 4 = \dots\dots\dots$	

Actually we are = each others



Thank you 😊