

Multiplication Table Chart

x	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
5	0	5	10	15	20	25	30	35	40	45	50	55	60
6	0	6	12	18	24	30	36	42	48	54	60	66	72
7	0	7	14	21	28	35	42	49	56	63	70	77	84
8	0	8	16	24	32	40	48	56	64	72	80	88	96
9	0	9	18	27	36	45	54	63	72	81	90	99	108
10	0	10	20	30	40	50	60	70	80	90	100	110	120
11	0	11	22	33	44	55	66	77	88	99	110	121	132
12	0	12	24	36	48	60	72	84	96	108	120	132	144

How to use this multiplication table example

Pick a number from the top row (in bold), let's choose 6.) Pick another number, this time from the left column (also in bold), let's choose 4.) From 4, move right until you find the box that lines up with the 6 in the top row. That box has 24 in it, this is the answer since $6 \times 4 = 24$.

Multiplication Table Practice Sheet

x	0	1	2	3	4	5	6	7	8	9	10	11	12
0													
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

Addition Table

+	0	1	2	3	4	5	6	7	8	9	10
0	0	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10	11
2	2	3	4	5	6	7	8	9	10	11	12
3	3	4	5	6	7	8	9	10	11	12	13
4	4	5	6	7	8	9	10	11	12	13	14
5	5	6	7	8	9	10	11	12	13	14	15
6	6	7	8	9	10	11	12	13	14	15	16
7	7	8	9	10	11	12	13	14	15	16	17
8	8	9	10	11	12	13	14	15	16	17	18
9	9	10	11	12	13	14	15	16	17	18	19
10	10	11	12	13	14	15	16	17	18	19	20

How to use this Addition Table: Pick a number from the top row
(in bold), let's choose 3.) Pick another number, this time from the left
column (also in bold), let's choose 4.) From 4, move right until you
find the box that lines up with the 3 in the top row. That box has 7 in

it, this is the answer $3 + 4 = 7$.

$2 \times 1 = 2$

$2 \times 2 = 4$

$2 \times 3 = 6$

$2 \times 4 = 8$

$2 \times 5 = 10$

$2 \times 6 = 12$

$2 \times 7 = 14$

$2 \times 8 = 16$

$2 \times 9 = 18$

$2 \times 10 = 20$

$2 \times 11 = 22$

$2 \times 12 = 24$

$3 \times 1 = 3$

$3 \times 2 = 6$

$3 \times 3 = 9$

$3 \times 4 = 12$

$3 \times 5 = 15$

$3 \times 6 = 18$

$3 \times 7 = 21$

$3 \times 8 = 24$

$3 \times 9 = 27$

$3 \times 10 = 30$

$3 \times 11 = 33$

$3 \times 12 = 36$

$4 \times 1 = 4$

$4 \times 2 = 8$

$4 \times 3 = 12$

$4 \times 4 = 16$

$4 \times 5 = 20$

$4 \times 6 = 24$

$4 \times 7 = 28$

$4 \times 8 = 32$

$4 \times 9 = 36$

$4 \times 10 = 40$

$4 \times 11 = 44$

$4 \times 12 = 48$

$5 \times 1 = 5$

$5 \times 2 = 10$

$5 \times 3 = 15$

$5 \times 4 = 20$

$5 \times 5 = 25$

$5 \times 6 = 30$

$5 \times 7 = 35$

$5 \times 8 = 40$

$5 \times 9 = 45$

$5 \times 10 = 50$

$5 \times 11 = 55$

$5 \times 12 = 60$

$6 \times 1 = 6$

$6 \times 2 = 12$

$6 \times 3 = 18$

$6 \times 4 = 24$

$6 \times 5 = 30$

$6 \times 6 = 36$

$6 \times 7 = 42$

$6 \times 8 = 48$

$6 \times 9 = 54$

$6 \times 10 = 60$

$6 \times 11 = 66$

$6 \times 12 = 72$

$7 \times 1 = 7$

$7 \times 2 = 14$

$7 \times 3 = 21$

$7 \times 4 = 28$

$7 \times 5 = 35$

$7 \times 6 = 42$

$7 \times 7 = 49$

$7 \times 8 = 56$

$7 \times 9 = 63$

$7 \times 10 = 70$

$7 \times 11 = 77$

$7 \times 12 = 84$

$8 \times 1 = 8$

$8 \times 2 = 16$

$8 \times 3 = 24$

$8 \times 4 = 32$

$8 \times 5 = 40$

$8 \times 6 = 48$

$8 \times 7 = 56$

$8 \times 8 = 64$

$8 \times 9 = 72$

$8 \times 10 = 80$

$8 \times 11 = 88$

$8 \times 12 = 96$

$9 \times 1 = 9$

$9 \times 2 = 18$

$9 \times 3 = 27$

$9 \times 4 = 36$

$9 \times 5 = 45$

$9 \times 6 = 54$

$9 \times 7 = 63$

$9 \times 8 = 72$

$9 \times 9 = 81$

$9 \times 10 = 90$

$9 \times 11 = 99$

$9 \times 12 = 108$

$10 \times 1 = 10$

$10 \times 2 = 20$

$10 \times 3 = 30$

$10 \times 4 = 40$

$10 \times 5 = 50$

$10 \times 6 = 60$

$10 \times 7 = 70$

$10 \times 8 = 80$

$10 \times 9 = 90$

$10 \times 10 = 100$

$10 \times 11 = 110$

$10 \times 12 = 120$

$11 \times 1 = 11$

$11 \times 2 = 22$

$11 \times 3 = 33$

$11 \times 4 = 44$

$11 \times 5 = 55$

$11 \times 6 = 66$

$11 \times 7 = 77$

$11 \times 8 = 88$

$11 \times 9 = 99$

$11 \times 10 = 110$

$11 \times 11 = 121$

$11 \times 12 = 132$

$12 \times 1 = 12$

$12 \times 2 = 24$

$12 \times 3 = 36$

$12 \times 4 = 48$

$12 \times 5 = 60$

$12 \times 6 = 72$

$12 \times 7 = 84$

$12 \times 8 = 96$

$12 \times 9 = 108$

$12 \times 10 = 120$

$12 \times 11 = 132$

$12 \times 12 = 144$

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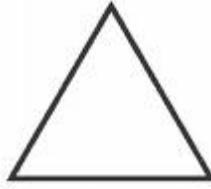
MathATube.com

Together, we'll learn

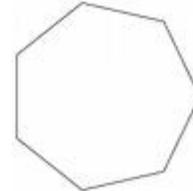
Regular Polygons

Sides and
Name

3 Triangle



3-Triangle

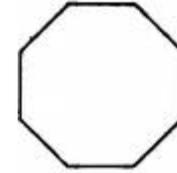


7-Heptagon

4 Quadrilateral



4-
Quadrilateral



8-Octagon

5 Pentagon

6 Hexagon

7 Heptagon

8 Octagon

9 Nonagon

10 Decagon

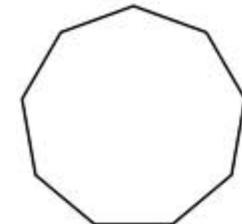
11 Undecagon
or
Hendecagon

12 Dodecagon

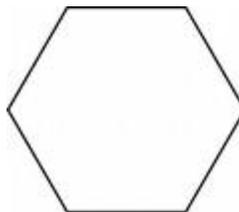
Triskaidecagon



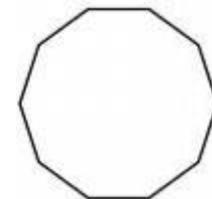
5-Pentagon



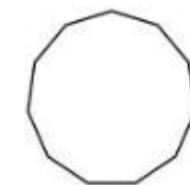
9-Nonagon



6-Hexagon



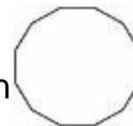
10-Decagon



11-Undecagon
or
Hendecagon

Tetrakaidecagon

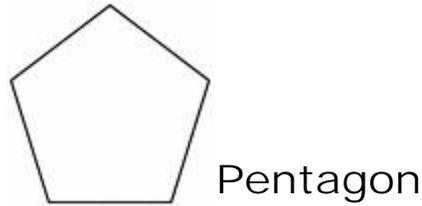
12-Dodecagon



What is a Regular Polygon?

Definition of a Regular Polygon: A polygon in which all angles and sides are equal.

Example: Regular Polygon



Irregular Polygon? Definition: Any polygon that is not a regular polygon. A polygon whose sides are not all the same length or whose interior angles do not all have the same measure.

Example: Irregular Polygon



The figure to the left is pentagon because it has five sides. But it is irregular because all the sides are not equal length.

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Fraction Decimal Percent MathATube.com

1/2	0.5	50%
1/3	0.333...	33.333...%
2/3	0.666...	66.666...%
1/4	0.25	25%
3/4	0.75	75%
1/5	0.2	20%
2/5	0.4	40%
3/5	0.6	60%
4/5	0.8	80%
1/6	0.1666...	16.666...%
5/6	0.8333...	83.333...%
1/8	0.125	12.5%
3/8	0.375	37.5%
5/8	0.625	62.5%
7/8	0.875	87.5%
1/9	0.111...	11.111...%
2/9	0.222...	22.222...%
4/9	0.444...	44.444...%
5/9	0.555...	55.555...%
7/9	0.777...	77.777...%
8/9	0.888...	88.888...%
1/10	0.1	10%
1/12	0.08333	8.333...%
1/16	0.0625	6.25%
1/32	0.03125	3.125%

$+$	positive, plus, add	\angle	angle
$-$	negative, minus, subtract	\perp	perpendicular
\times	times, multiply	$^{\circ}$	degree(s)
\div	divide	Δ	triangle
$=$	is equal to	\approx	is approximately equal to
\neq	is not equal to	\sim	is similar to
$<$	is less than	\parallel	is parallel to
$>$	is greater than	∞	infinity
\leq	is less than or equal to	π	pi, 3.14159
\geq	is greater than or equal to	\cong	is congruent to
$()$	Parentheses (grouping symbol)	\therefore	therefore
$[]$	Brackets (grouping symbol)	$\sqrt{\quad}$	square root
$\{ \}$	Braces (grouping symbol)	L	right angle
$ $	Absolute Value Bars	$!$	factorial
\in	is an element of	Σ	the sum of
\notin	is not an element of	e	numeric constant 2.71828
$\subset \subseteq$	is a subset of	\overleftrightarrow{AB}	line AB
$\not\subset \not\subseteq$	is not a subset	\overline{AB}	segment AB
\cup	the set of	AB	the length of \overline{AB}
\cap	the intersection	\overrightarrow{AB}	ray AB

Roman Numerals - 1 to 100

1 = I	27 = XXVII	53 = LIII	76 = LXXVI
2 = II	28 = XXVIII	54 = LIV	77 = LXXVII
3 = III	29 = XXIX	55 = LV	78 = LXXVIII
4 = IV	30 = XXX	56 = LVI	79 = LXXIX
5 = V	31 = XXXI	57 = LVII	80 = LXXX
6 = VI	32 = XXXII	58 = LVIII	81 = LXXXI
7 = VII	33 = XXXIII	59 = LIX	82 = LXXXII
8 = VIII	34 = XXXIV	60 = LX	83 = LXXXIII
9 = IX	35 = XXXV	61 = LXI	84 = LXXXIV
10 = X	36 = XXXVI	62 = LXII	85 = LXXXV
11 = XI	37 = XXXVII	63 = LXIII	86 = LXXXVI
12 = XII	38 = XXXVIII	64 = LXIV	87 = LXXXVII
13 = XIII	39 = XXXIX	65 = LXV	88 = LXXXVIII
14 = XIV	40 = XL	66 = LXVI	89 = LXXXIX
15 = XV	41 = XLI	67 = LXVII	90 = XC
16 = XVI	42 = XLII	68 = LXVIII	91 = XCI
17 = XLII	43 = XLIII	69 = LXIX	92 = XCII
18 = XLIII	44 = XLIV	70 = LXX	93 = XCIII
19 = XIX	45 = XLV	71 = LXXI	94 = XCIV
20 = XX	46 = XLVI	72 = LXXII	95 = XCV
21 = XXI	47 = XLVII	73 = LXXIII	96 = XCVI
22 = XXII	48 = XLVIII	74 = LXXIV	97 = XCVII
23 = XXIII	49 = XLIX	75 = LXXV	98 = XCVIII
24 = XXIV	50 = L		99 = XCIX
25 = XXV	51 = LI		100 = C
26 = XXVI	52 = LII		

Order Of Operations

The order of operations is a special rule in mathematics that tells us what operation we must do first.

Steps:

1: Do operations in Parentheses and other grouping symbols first. If there are grouping symbols within other grouping symbols do the innermost one first.

2: Then Exponent

3: Then Multiplication or Division from left to right.

4: And then Addition or Subtraction from left to right

A popular Acronym to Help you Remember the order of operations

(**PEMDAS**) **P**lease **E**xcuse **M**y **D**ear **A**unt **S**ally

(**P**arenthesis), **E**xponents, **M**ultiply and **D**ivide, **A**dd and **S**ubtract)

Example: Simplify the expression by using the order of operations.

$$(8 + 4 + 3) \div 3 - 2$$

Do the Parentheses first, then do the division, then add or subtract from left to right.

$$(15) \div 3 - 2$$

$$5 - 2 = 3$$

Answer 3

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Order Of Operations Examples

Simplify each expression by using the order of operations.

- | | | | |
|----|------------------------------|----|----|
| 1. | $18 \div 9 + 32$ | 1. | 11 |
| 2. | $6 \div 2 + 1 \cdot 4$ | 2. | 7 |
| 3. | $18 - 23 + 3 \cdot 4$ | 3. | 22 |
| 4. | $(8 + 4 + 3) \div 3 - 2$ | 4. | 3 |
| 5. | $(8 + 4 + 5) \div (3 - 2)$ | 5. | 17 |
| 6. | $10 \div 5 - 22 \div 2$ | 6. | 0 |
| 7. | $40 + 24 \div 8 - 3 + 1$ | 7. | 41 |
| 8. | $(40 + 24) \div 8 - (3 + 1)$ | 8. | 4 |
| 9. | $(27 + 18) \div 9 - (3 + 1)$ | 9. | 1 |

Watch order of operations videos, go to
mathatube.com/order-of-operations.html

Mean, Median, Mode, and Range

The mean

The mean is the same as the average. Add up the series of numbers and divide by the number of numbers in the list.

Example: Find the mean of 4, 6, 10, 4.

Step 1: Add all the numbers = 24

Step 2: dividing 24 by the number of numbers in the list. $24 \div 4 = 6$

the mean or average of 4, 6, 10, 4 is 6

The median

The "median" is the "middle" value in the list of numbers. To find the median,

your numbers have to be listed in numerical order, (from least to greatest) so you may

have to rewrite your list first.

Example : A student has gotten the following grades on his tests: 60, 70, 80, 90, and 100

The median grade is 80

The mode

The "mode" is the value that occurs most often. If no number is repeated,

then there is no mode for the list. Find the mode of 4, 6, 4 and 10

Example . First you list the numbers in order . 4, 4, 6, 10

Then you look to see which number repeats the most .

4 repeats twice, which means it's the mode is 4.

The Range

The range of a set of data (numbers) is the difference between the highest and lowest values in the set.

Example: find the range of 4, 6, 4, 10

step-1 Arrange the numbers in order by size 4, 4, 6, 10

step-2 Subtract the smallest number from the largest number. $10 - 4 = 6$

6 is the Range

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