

EP's MENTAL MATHS - KEY SKILLS!



MULTIPLICATION AND DIVISION

In addition to the 2, 3, 4, 5 and 10 times tables, know ALL your times tables inside out and recognise their factors and multiples! And by the end of Year 4 - have fast and fluent recall of all the tables!

6 Times Table

- $0 \times 6 = 0$
- $1 \times 6 = 6$
- $2 \times 6 = 12$
- $3 \times 6 = 18$
- $4 \times 6 = 24$
- $5 \times 6 = 30$
- $6 \times 6 = 36$
- $7 \times 6 = 42$
- $8 \times 6 = 48$
- $9 \times 6 = 54$
- $10 \times 6 = 60$
- $11 \times 6 = 66$
- $12 \times 6 = 72$

And \div facts

7 Times Table

- $0 \times 7 = 0$
- $1 \times 7 = 7$
- $2 \times 7 = 14$
- $3 \times 7 = 21$
- $4 \times 7 = 28$
- $5 \times 7 = 35$
- $6 \times 7 = 42$
- $7 \times 7 = 49$
- $8 \times 7 = 56$
- $9 \times 7 = 63$
- $10 \times 7 = 70$
- $11 \times 7 = 77$
- $12 \times 7 = 84$

And \div facts

9 Times Table

- $0 \times 9 = 0$
- $1 \times 9 = 9$
- $2 \times 9 = 18$
- $3 \times 9 = 27$
- $4 \times 9 = 36$
- $5 \times 9 = 45$
- $6 \times 9 = 54$
- $7 \times 9 = 63$
- $8 \times 9 = 72$
- $9 \times 9 = 81$
- $10 \times 9 = 90$
- $11 \times 9 = 99$
- $12 \times 9 = 108$

And \div facts

11 Times Table

- $0 \times 11 = 0$
- $1 \times 11 = 11$
- $2 \times 11 = 22$
- $3 \times 11 = 33$
- $4 \times 11 = 44$
- $5 \times 11 = 55$
- $6 \times 11 = 66$
- $7 \times 11 = 77$
- $8 \times 11 = 88$
- $9 \times 11 = 99$
- $10 \times 11 = 110$
- $11 \times 11 = 121$
- $12 \times 11 = 132$

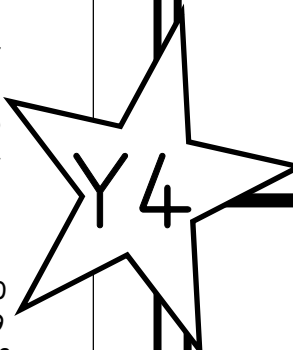
And \div facts

12 Times Table

- $0 \times 12 = 0$
- $1 \times 12 = 12$
- $2 \times 12 = 24$
- $3 \times 12 = 36$
- $4 \times 12 = 48$
- $5 \times 12 = 60$
- $6 \times 12 = 72$
- $7 \times 12 = 84$
- $8 \times 12 = 96$
- $9 \times 12 = 108$
- $10 \times 12 = 120$
- $11 \times 12 = 132$
- $12 \times 12 = 144$

And \div facts

Keep up your addition facts from KS1...



PLACE VALUE AND COUNTING

Count in multiples of 6, 7, 9, 25 and 1000

Find 1000 more or less than any number

Count backwards through zero to include negative numbers

Recognise the place value of each digit in a four digit number

Partition a four digit number into 1000s, 100s, 10s and 1s

(e.g. 2345 = 2000 + 300 + 40 + 5)

Order and compare numbers beyond 1000

Round any number to the nearest 10, 100 or 1000

Round decimals with one decimal place to the nearest whole number

Understand place value with hundredths and tenths

CALCULATION (+ - \times \div)

Understand multiplying and dividing numbers by 10 and 100

Multiply 3 numbers together mentally

USE AND APPLY YOUR TIMES TABLES! (with 3 digit numbers)

For example: If you know that $2 \times 3 = 6$

FRACTION ACTION!

Understand and use hundredths and tenths

Count up and down in hundredths 1/100, 2/100, 3/100

Recognise decimal equivalents to simple fractions

$1/10 = 0.1$

$1/100 = 0.01$

$1/2 = 0.5$

$1/4 = 0.25$

$3/4 = 0.75$

Use knowledge of factors and multiples to recognise and simplify equivalent fractions

(e.g. $6/9 = 2/3$)

Interactive Resources: Multiple Wipeout, Top Spot, Rounding balloons,

Sum Sense, Arithmagons

Dice Games: SPROD, Shall I Risk it, Gozinto

Adding 1	Doubles	Adding 2	Story of 10	Y1 facts Y2 facts
Adding 10	Adding 0	Near doubles	Bridging/ Compensating	

+	0	1	2	3	4	5	6	7	8	9	10
0	0+0	0+1	0+2	0+3	0+4	0+5	0+6	0+7	0+8	0+9	0+10
1	1+0	1+1	1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+10
2	2+0	2+1	2+2	2+3	2+4	2+5	2+6	2+7	2+8	2+9	2+10
3	3+0	3+1	3+2	3+3	3+4	3+5	3+6	3+7	3+8	3+9	3+10
4	4+0	4+1	4+2	4+3	4+4	4+5	4+6	4+7	4+8	4+9	4+10
5	5+0	5+1	5+2	5+3	5+4	5+5	5+6	5+7	5+8	5+9	5+10
6	6+0	6+1	6+2	6+3	6+4	6+5	6+6	6+7	6+8	6+9	6+10
7	7+0	7+1	7+2	7+3	7+4	7+5	7+6	7+7	7+8	7+9	7+10
8	8+0	8+1	8+2	8+3	8+4	8+5	8+6	8+7	8+8	8+9	8+10
9	9+0	9+1	9+2	9+3	9+4	9+5	9+6	9+7	9+8	9+9	9+10
10	10+0	10+1	10+2	10+3	10+4	10+5	10+6	10+7	10+8	10+9	10+10

Addition Facts!

Learn the facts from the grid, group by group, recalling them in 3 seconds without counting in 1s!

Adding 1

Doubles up to double 10

Adding 2

Bonds to 10

Pairs of numbers that total 2, 3, 4, 5, 6, 7, 8 & 9

Adding 10

Adding 0

Near doubles

Pairs that bridge 10