

PLATINUM CHALLENGE KS1 & Year 3

Multiplying numbers by

10, 100 and 1000 mentally

All digits move to the left 1, 2 or 3 times. Fill any gaps with place holders

Eg. $14 \times 10 = 140$

Th	H	T	U	.	t th	h th	th th
		1	4				
	1	4	0				

Eg $14 \times 100 = 1400$

Th	H	T	U	.	t th	h th	th th
		1	4				
1	4	0	0				

Eg. $1.4 \times 1000 = 1400$

Th	H	T	U	.	t th	h th	th th
			1	.	4		
1	4	0	0				

Dividing numbers by

10, 100 and 1000 mentally

All digits move to the right 1, 2 or 3 times. Fill any gaps with place holders Eg.

$140 \text{ divided by } 10 = 14$

Th	H	T	U	.	t th	h th	th th
	1	4	0				
		1	4				

Eg. $1400 \text{ divided by } 100 = 14$

Th	H	T	U	.	t th	h th	th th
1	4	0	0				
		1	4				

Eg. $1400 \text{ divided by } 1000 = 1.4$

Th	H	T	U	.	t th	h th	th th
1	4	0	0				
			1	.	4		

Learn common

halves and apply to halving numbers to 100

$\frac{1}{2}$ of 1 = 0.5

$\frac{1}{2}$ of 2 = 1

$\frac{1}{2}$ of 3 = 1.5

$\frac{1}{2}$ of 4 = 2

$\frac{1}{2}$ of 5 = 2.5

$\frac{1}{2}$ of 6 = 3

$\frac{1}{2}$ of 7 = 3.5

$\frac{1}{2}$ of 8 = 4

$\frac{1}{2}$ of 9 = 4.5

$\frac{1}{2}$ of 10 = 5

$\frac{1}{2}$ of 20 = 10

$\frac{1}{2}$ of 30 = 15

$\frac{1}{2}$ of 40 = 20

$\frac{1}{2}$ of 50 = 25

$\frac{1}{2}$ of 60 = 30

$\frac{1}{2}$ of 70 = 35

$\frac{1}{2}$ of 80 = 40

$\frac{1}{2}$ of 90 = 45

$\frac{1}{2}$ of 100 = 50

Square Numbers

$$1 \times 1 = 1$$

$$2 \times 2 = 4$$

$$3 \times 3 = 9$$

$$4 \times 4 = 16$$

$$5 \times 5 = 25$$

$$6 \times 6 = 36$$

$$7 \times 7 = 49$$

$$8 \times 8 = 64$$

$$9 \times 9 = 81$$

$$10 \times 10 = 100$$

$$12 \times 12 = 144$$

Time

Tell the time to the nearest minute on an analogue clock

Days in a year (365/366)

Days in each month

Days in the week Hours in a day

Minutes in an hour Seconds in a minute

Learn all the factors of numbers up to 30

Factors are numbers that divide **exactly** into another number.

The factors of 12, for example, are 1, 2, 3, 4, 6 and 12.

Factors can be shown in **pairs**. The factors of 12 can be shown:

- 1 and 12 because $1 \times 12 = 12$
- 2 and 6 because $2 \times 6 = 12$
- 3 and 4 because $3 \times 4 = 12$

Each pair multiplies to make 12.

Factors of 12, 16, 24, 36 & 72

Well Done
for
achieving
your Gold
Award!!!

Can you
now become
a Platinum
award
holder?