

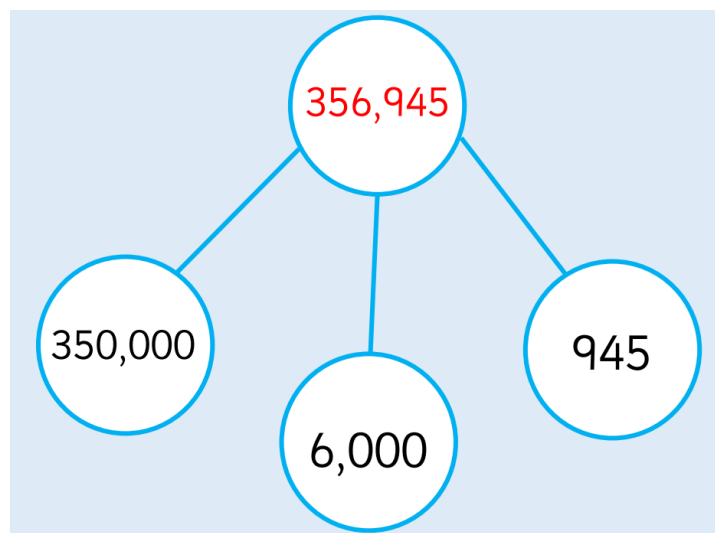
Key Instant Recall Facts

Year 5

Autumn 1

Know the value of digits up to at least one million

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
	6	5	2	3	8	9
Six hundred and fifty-two thousand, three hundred and eighty-nine						
1	0	0	0	0	0	0
One million						
	5	1	2	8	0	9
Five hundred and twelve thousand, eight hundred and nine						



Key Instant Recall Facts

Year 5

Autumn 2

Double and halve any number up to 100

Doubling

Number	Calculation	Doubled Number
35	35×2	70
70	70×2	140
43	43×2	86
82	82×2	164

Halving

Number	Calculation	Halved Number
34	$34 \div 2$	17
82	$82 \div 2$	41
90	$90 \div 2$	45
30	$30 \div 2$	15
15	$15 \div 2$	7.5
11	$11 \div 2$	5.5

Example Fact Family

$$35 \times 2 = 70$$

$$70 \div 2 = 35$$

Example Fact Family

$$82 \times 2 = 164$$

$$164 \div 2 = 82$$

Things to remember...

When you double a number, you multiply it by 2

When you halve a number, you divide it by 2

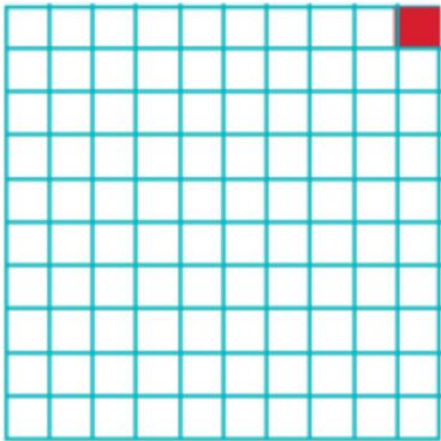
Key Instant Recall Facts

Year 5

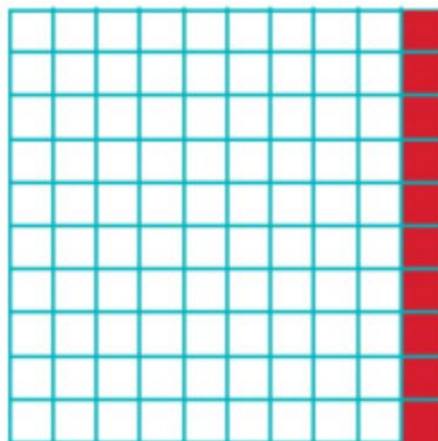
Spring 1

Know that percent (%) relates to number of parts per 100

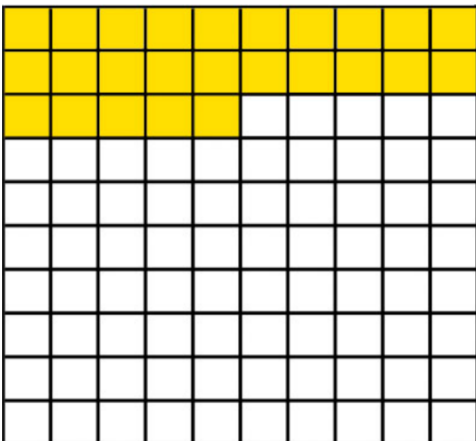
When we talk about percentages, we imagine that a 'whole' as been divided into 100 equal parts.



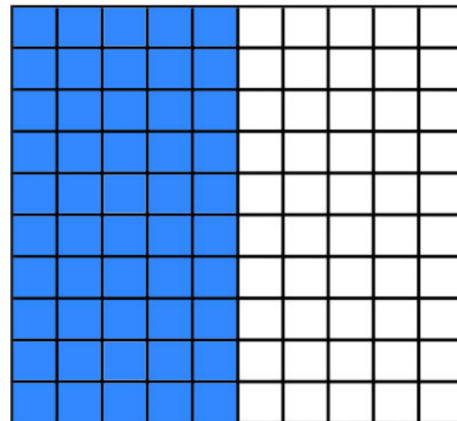
1%



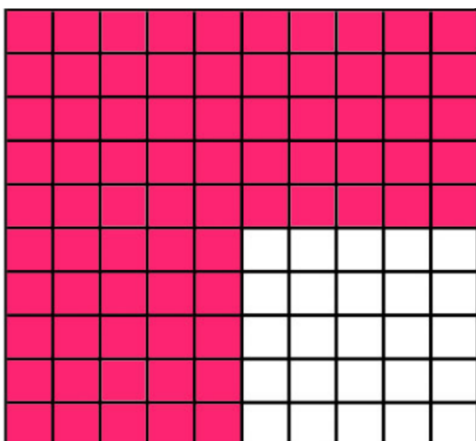
10%



$$\frac{25}{100} = 25\%$$



$$\frac{50}{100} = 50\%$$



$$\frac{75}{100} = 75\%$$

Key Instant Recall Facts

Year 5

Spring 2

Know common decimal, fraction and percentage equivalences

Decimal	Fraction	Percentage
0.1	$\frac{1}{10}$	10%
0.2	$\frac{2}{10}$ OR $\frac{1}{5}$	20%
0.25	$\frac{1}{4}$	25%
0.3	$\frac{1}{3}$	33%
0.4	$\frac{4}{10}$ OR $\frac{2}{5}$	40%
0.5	$\frac{5}{10}$ OR $\frac{1}{2}$	50%
0.6	$\frac{6}{10}$ OR $\frac{3}{5}$	60%
0.7	$\frac{7}{10}$	70%
0.75	$\frac{3}{4}$	75%
0.8	$\frac{8}{10}$ OR $\frac{4}{5}$	80%
0.9	$\frac{9}{10}$	90%
1	$\frac{10}{10}$	100%

Key Instant Recall Facts

Year 5

Summer 1

Know **squared** numbers to 144 and how to calculate beyond 12 x 12

Know how to calculate **cubed** numbers

Squared Numbers

Number	Calculation	Squared Number
1	1×1	1
2	2×2	4
3	3×3	9
4	4×4	16
5	5×5	25
6	6×6	36
7	7×7	49
8	8×8	64
9	9×9	81
10	10×10	100
11	11×11	121
12	12×12	144

Cubed Numbers

Number	Calculation	Cubed Number
1	$1 \times 1 \times 1$	1
2	$2 \times 2 \times 2$	8
3	$3 \times 3 \times 3$	27
4	$4 \times 4 \times 4$	64
5	$5 \times 5 \times 5$	125
6	$6 \times 6 \times 6$	216
7	$7 \times 7 \times 7$	343
8	$8 \times 8 \times 8$	512
9	$9 \times 9 \times 9$	729
10	$10 \times 10 \times 10$	1000
11	$11 \times 11 \times 11$	1331
12	$12 \times 12 \times 12$	1728

Key Instant Recall Facts

Year 5

Summer 1

Know **prime numbers** up to 19 and how to establish whether a number is prime

	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

The uncrossed numbers are prime numbers.

Things to remember...

A prime number is a number that can only be divided by 1 and itself.

Add all of the digits in a number and if the sum is divisible by 3, it is not a prime number.