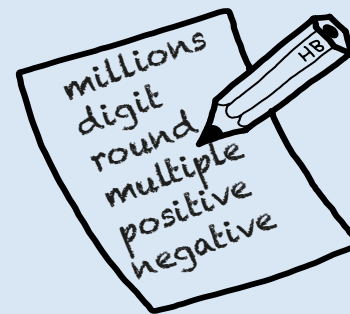


Multiplying and dividing by 10, 100 and 1000

M	HTh	TTh	Th	100s	10s	1s	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
					1	3	6		
				1	3	6			
		1	3	6	0	0			
					2	4	7		
						2	4	7	
						0	2	4	7

Each digit is ten times greater.

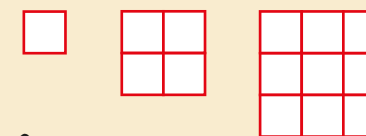
Each digit is ten times smaller.



13.6×10
move digits 1 column left
 13.6×1000
move digits 3 columns left

$24.7 \div 10$
move digits 1 column right
 $24.7 \div 100$
move digits 2 columns right

1	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



$$1^2 = 1 \times 1 = 1$$

$$2^2 = 2 \times 2 = 4$$

$$3^2 = 3 \times 3 = 9$$

A **square number** is the result of multiplying a number by itself.

$$1^3 = 1 \times 1 \times 1 = 1$$

$$2^3 = 2 \times 2 \times 2 = 8$$

$$3^3 = 3 \times 3 \times 3 = 27$$

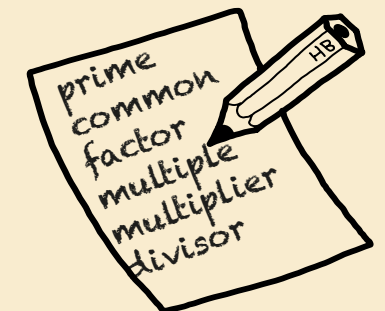
A **cube number** is the result of multiplying a whole number by itself, then by itself again.



If I know... then I also know... because...

Factors of 15 = {1, 3, 5, 15}
Factors of 21 = {1, 3, 7, 21}
1 and 3 are common factors of 15 and 21

Multiples of 3 are 3, 6, 9, 12
Multiples of 4 are 4, 8, 12, 16
12 is a common multiple of 3 and 4



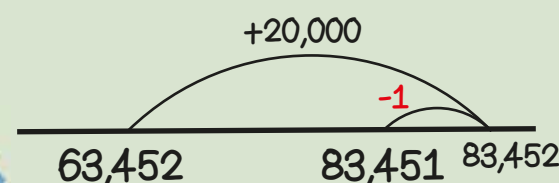
Year 5 Term 2



63,452 + 19,999
Round then adjust

10,000s	1000s	100s	10s	1s
10,000 10,000	1000 1000	100 100	10 10	1 1
10,000 10,000	1000	100 100	10 10	1
10,000 10,000			10	
10,000 10,000				

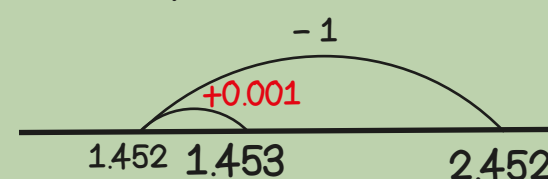
Add 20,000 then **subtract 1**



2.452 - 0.999
Round then adjust

1s	$\frac{1}{10}$ s	$\frac{1}{100}$ s	$\frac{1}{1000}$ s
1 1	0.1 0.1	0.01 0.01	0.001 0.001
	0.1 0.1	0.01 0.01	
		0.01	0.001

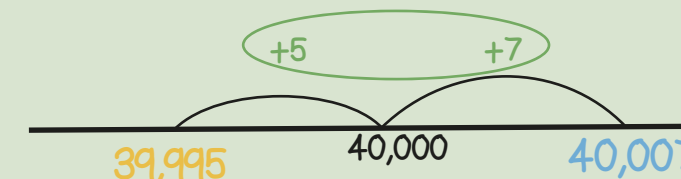
Take away 1 then **add 1 thousandth**



40,007 - 39,995
Find the difference between two numbers

40,007
39,995
12

Count on 5 from 39,995 to 40,000, then 7 more so the difference between them is 12



Written methods

$$\begin{array}{r} 25,648 \\ + 42,524 \\ \hline 68,172 \end{array}$$

$$\begin{array}{r} 25.648 \\ + 42.524 \\ \hline 68.172 \end{array}$$

