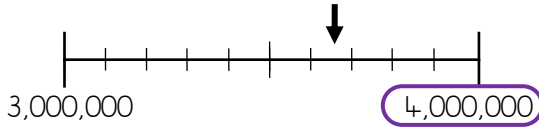


# Y6 - Number and Place Value

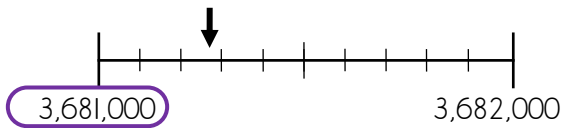
Round to the nearest 1,000,000

3,681,294



Round to the nearest 1,000

3,681,294



comparing numbers

<

>

=

less than

more than

equal to

3,681,294

< 4,000,000

3,681,294

> 3,000,000

3,681,294

= 3,600,000 + 1,294

M	HTh	TTh	Th	H	T	O
3	6	8	1	2	9	4
3	0	0	0	0	0	0
	6	0	0	0	0	0
		8	0	0	0	0
			1	0	0	0
				2	0	0
					9	0
						4

ordering numbers

M	HTh	TTh	Th	H	T	O
3	6	8	1	2	9	4
3	6	8	1	9	2	4
3	6	8	1	2	4	9

largest

smallest

ascending order:

3,681,294

3,681,294

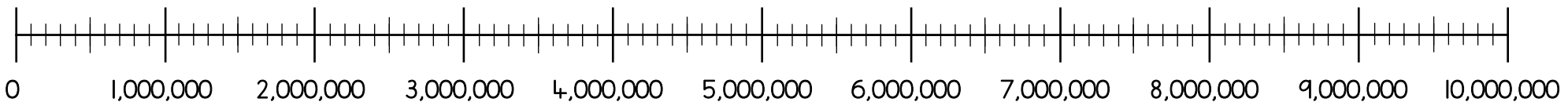
3,681,924

descending order:

3,681,924

3,681,294

3,681,294



# Y6 - Addition, Subtraction, Multiplication and Division

## short multiplication

		4	3	5	7
	x			3	6
-----		2	6	1	4
1	3	0	7	1	0
-----		1	5	6	8
				5	2

## short division

		0	5	2	r3
1	2	6	2	7	
		1			

decimal 52.25  
fraction  $52\frac{3}{12} / 52\frac{1}{4}$

## long division

		0	5	2	r3
1	2	6	2	7	
	-	6	0	0	(12 x 50)
			2	7	
	-		2	4	(12 x 2)
				3	

Common factors of 12 and 30 are 1, 2, 3 and 6.

The highest common factor (HCF) is 6

12	30	
① x 12	① x 30	5 x ⑥
② x ⑥	② x 15	
③ x 4	③ x 10	

Common multiples of 3 and 4 include 12 and 24.

The lowest common multiple (LCM) is 12

Multiples of 3: 3, 6, 9, 12, 15, 18, 21, 24, 27

Multiples of 4: 4, 8, 12, 16, 20, 24, 28, 32

## using rounding to estimate

$$3.8 \times 6$$

3.8 is roughly equal to 4.

$$4 \times 6 = 24$$

A **prime number** is a whole number greater than one that only has two factors - one and itself. It can't be divided by another positive integer without leaving a remainder. 2 is the only even prime number.

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

- B Brackets
- O Order (square/ cubes/ roots)
- DM Division and multiplication
- AS Addition and subtraction

$$5 - 3 + (6 \times 2) \times 2^2$$

$$5 - 3 + 12 \times 2^2$$

$$5 - 3 + 12 \times 4$$

$$5 - 3 + 48$$

$$50$$