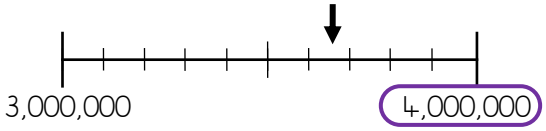
Y6 - Number and Place Value

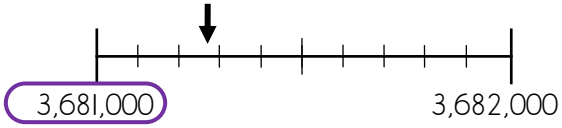
Round to the nearest 1,000,000

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	largest
3 ,	6	8	1 ,	2	4	9	smallest

ascending order:

3,681,249 3,681,294 3,681,924

descending order:

3,681,924 3,681,294 3,681,249

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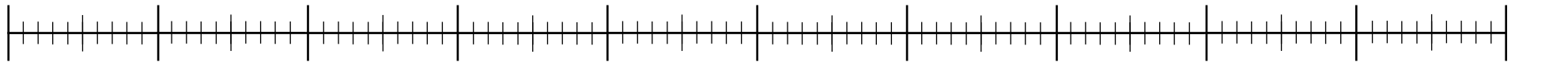

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Y6 - Addition, Subtraction, Multiplication and Division

short multiplication

		4	3	5	7
	x			3	6
	2	6	1	4	2
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		

using rounding to estimate

3.8 x 6

3.8 is roughly equal to 4.
4 x 6 = 24

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

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

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

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