Place Value Chart

Hundred Billions	Ten Billions	Billions	,	Hundred Millions	Ten Millions	Millions	,	Hundred Thousands	Ten Thousands	Thousands	,	Hundreds	Tens	Ones	.	Tenths	Hundredths	Thousandths	Ten Thousandths	Hundred Thousandths
2	1	0	,	9	8	7	,	6	5	4	,	3	2	1	.	2	3	4	5	6

This Chart shows the place value of the number 210,987,654,321.23456

This is how you say it.

Two hundred ten billion, nine hundred eighty seven million, six hundred fifty four thousand, three hundred twenty one, and twenty three thousand four hundred fifty six hundred thousandths.

Times Table - 15x15

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	**1**	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	2	**4**	6	8	10	12	14	16	18	20	22	24	26	28	30
3	3	6	**9**	12	15	18	21	24	27	30	33	36	39	42	45
4	4	8	12	**16**	20	24	28	32	36	40	44	48	52	56	60
5	5	10	15	20	**25**	30	35	40	45	50	55	60	65	70	75
6	6	12	18	24	30	**36**	42	48	54	60	66	72	78	84	90
7	7	14	21	28	35	42	**49**	56	63	70	77	84	91	98	105
8	8	16	24	32	40	48	56	**64**	72	80	88	96	104	112	120
9	9	18	27	36	45	54	63	72	**81**	90	99	108	117	126	135
10	10	20	30	40	50	60	70	80	90	**100**	110	120	130	140	150
11	11	22	33	44	55	66	77	88	99	110	**121**	132	143	154	165
12	12	24	36	48	60	72	84	96	108	120	132	**144**	156	168	180
13	13	26	39	52	65	78	91	104	117	130	143	156	**169**	182	195
14	14	28	42	56	70	84	98	112	126	140	154	168	182	**196**	210
15	15	30	45	60	75	90	105	120	135	150	165	180	195	210	**225**

Multiplication Table - 15x15

(720 x 526 pixels = 10 x 7.2 inches @ 100%)

top of page

Factor Sheet

2- If the last digit is: 0 or 2 or 4 or 6 or 8
3- If the sum of the digits is divisible by 3
4- If the last two digits are divisible by 4
5- If the last digit is: 0 or 5
6- If it is divisible by 2 and 3
8- It the last three digits are divisible by 8
9- If the sum if the digits is divisible by 9
10- If the last digit is 0
12- If the number is divisible by 3 and 4

1 Special	**2** Prime 1,2	**3** Prime 1,3	**4** 1,2,4	**5** Prime 1,5	**6** 1,2,3,6	**7** Prime 1,7	**8** 1,2,4,8	**9** 1,3,9	**10** 1,2,5,10
11 Prime 1,11	**12** 1,2,3,4, 6,12	**13** Prime 1,13	**14** 1,2,7,14	**15** 1,3,5,15	**16** 1,2,4, 8,16	**17** Prime 1,17	**18** 1,2,3,6, 9,18	**19** Prime 1,19	**20** 1,2,4,5, 10,20
21 1,3,7,21	**22** 1,2,11, 22	**23** Prime 1,23	**24** 1,2,3,4,6, 8,12,24	**25** 1,5,25	**26** 1,2,13,26	**27** 1,3,9,27	**28** 1,2,4,7, 14,28	**29** Prime 1,29	**30** 1,2,3,5,6 10,15,30
31 Prime 1,31	**32** 1,2,4,8, 16,32	**33** 1,3,11,33	**34** 1,2,17,34	**35** 1,5,7,35	**36** 1,2,3,4,6,9, 12,18,36	**37** Prime 1,37	**38** 1,2,19,38	**39** 1,3,13,39	**40** 1,2,4,5,8 10,20,40
41 Prime 1,41	**42** 1,2,3,6,7 14,21,42	**43** Prime 1,43	**44** 1,2,4,11, 22,44	**45** 1,3,5,9, 15,45	**46** 1,2,23,46	**47** Prime 1,47	**48** 1,2,3,4, 6,8,12, 16,24,48	**49** 1,7,49	**50** 1,2,5,10, 25,50
51 1,3,17,51	**52** 1,2,4,13, 26,52	**53** Prime 1,53	**54** 1,2,3,6,9 18,27,54	**55** 1,5,11,55	**56** 1,2,4,7,8 14,28,56	**57** 1,3,19,57	**58** 1,2,29,58	**59** Prime 1,59	**60** 1,2,3,4,5,6, 10,12,15, 20,30,60
61 Prime 1,61	**62** 1,2,31,62	**63** 1,3,7,9, 21,63	**64** 1,2,4,8, 16,32,64	**65** 1,5,13,65	**66** 1,2,3,6,11, 22,33,66	**67** Prime 1,67	**68** 1,2,4,17, 34,68	**69** 1,3,23,69	**70** 1,2,5,7,10, 14,35,70
71 Prime 1,71	**72** 1,2,3,4,6 8,9,12,18, 24,36,72	**73** Prime 1,73	**74** 1,2,37,74	**75** 1,3,5,15, 25,75	**76** 1,2,4,19, 38,76	**77** 1,7,11,77	**78** 1,2,3,6,13, 26,39,78	**79** Prime 1,79	**80** 1,2,4,5,8 10,16,20 40,80
81 1,3,9,27,81	**82** 1,2,41,82	**83** Prime 1,83	**84** 1,2,3,4,6, 7,2,14,21, 28,42,84	**85** 1,5,17,85	**86** 1,2,43,86	**87** 1,3,29,87	**88** 1,2,4,8,11, 22,44,88	**89** Prime 1,89	**90** 1,2,3,5,6, 9,10,15, 18,30
91 1,7,13,91	**92** 1,2,4,23, 46,92	**93** 1,3,31,93	**94** 1,2,4,16, 47,94	**95** 1,5,19,95	**96** 1,2,3,4,6,8, 12,16,24, 32,48,96	**97** Prime 1,97	**98** 1,2,7,14, 49,98	**99** 1,3,9,11, 33,99	**100** 1,2,4,5, 10,20,2550 ,100

WORDS AND PHRASES THAT TELL YOU TO ADD

Add, and, in total

How much (if asking for total)

WORDS AND PHRASES THAT TELL YOU TO SUBTRACT

How many

How many more

More

Already

Saved

How much; if asked for remaining

WORDS AND PHRASES THAT TELL YOU TO MULTIPLY

A much as, of, each (asking for total)

Area, if given length worth

WORDS AND PHRASES THAT TELL YOU TO DIVIDE

Divide, equal groups, quotient divided by, cut, each share, equally, if given area & length or width

How many (did each) if given total

How long (if given total)

Per (if given total)

Price of one, the "one" is divisor

DEFINITIONS

Equivalent: equal

Reciprocal: flip the fraction

Integers: positive and negative whole numbers

Greater than: >, to the right on number line.

Less than < to the left on the number line

Number line: graph

OTHER USEFUL FACTS

Form a/b; written as proper or improper fraction; as a ratio

Fastest time means lowest number

Dive or loss: negative

Climb or gained: positive

Opposite: change b/w + & -

Absolute value: second number is positive (equal) distance from zero. The father from zero the greater the absolute value

if you see the following words in a problem...

Find LCM: each, every, first, both, same time, again, multiple number greater than original

Find GCF: less than original, same number, each greater.

Below-negative Above-positive

Compare: least to greatest

Highest to lowest: greatest to least; from right to left on number line

Least to greatest; read from left to right on graph

Factors of: the numbers you multiply to get a product

Factor Sheet

2- If the last digit is: 0 or 2 or 4 or 6 or 8
3- If the sum of the digits is divisible by 3
4- If the last two digits are divisible by 4
5- If the last digit is: 0 or 5
6- If it is divisible by 2 and 3
8- If the last three digits are divisible by 8
9- If the sum if the digits is divisible by 9
10- If the last digit is 0
12- If the number is divisible by 3 and 4

1 Special	**2** Prime 1,2	**3** Prime 1,3	**4** 1,2,4	**5** Prime 1,5	**6** 1,2,3,6	**7** Prime 1,7	**8** 1,2,4,8	**9** 1,3,9	**10** 1,2,5,10
11 Prime 1,11	**12** 1,2,3,4, 6,12	**13** Prime 1,13	**14** 1,2,7,14	**15** 1,3,5,15	**16** 1,2,4, 8,16	**17** Prime 1,17	**18** 1,2,3,6, 9,18	**19** Prime 1,19	**20** 1,2,4,5, 10,20
21 1,3,7,21	**22** 1,2,11, 22	**23** Prime 1,23	**24** 1,2,3,4,6, 8,12,24	**25** 1,5,25	**26** 1,2,13,26	**27** 1,3,9,27	**28** 1,2,4,7, 14,28	**29** Prime 1,29	**30** 1,2,3,5,6 10,15,30
31 Prime 1,31	**32** 1,2,4,8, 16,32	**33** 1,3,11,33	**34** 1,2,17,34	**35** 1,5,7,35	**36** 1,2,3,4,6,9, 12,18,36	**37** Prime 1,37	**38** 1,2,19,38	**39** 1,3,13,39	**40** 1,2,4,5,8 10,20,40
41 Prime 1,41	**42** 1,2,3,6,7 14,21,42	**43** Prime 1,43	**44** 1,2,4,11, 22,44	**45** 1,3,5,9, 15,45	**46** 1,2,23,46	**47** Prime 1,47	**48** 1,2,3,4, 6,8,12, 16,24,48	**49** 1,7,49	**50** 1,2,5,10, 25,50
51 1,3,17,51	**52** 1,2,4,13, 26,52	**53** Prime 1,53	**54** 1,2,3,6,9 18,27,54	**55** 1,5,11,55	**56** 1,2,4,7,8 14,28,56	**57** 1,3,19,57	**58** 1,2,29,58	**59** Prime 1,59	**60** 1,2,3,4,5,6, 10,12,15, 20,30,60
61 Prime 1,61	**62** 1,2,31,62	**63** 1,3,7,9, 21,63	**64** 1,2,4,8, 16,32,64	**65** 1,5,13,65	**66** 1,2,3,6,11, 22,33,66	**67** Prime 1,67	**68** 1,2,4,17, 34,68	**69** 1,3,23,69	**70** 1,2,5,7,10, 14,35,70
71 Prime 1,71	**72** 1,2,3,4,6 8,9,12,18, 24,36,72	**73** Prime 1,73	**74** 1,2,37,74	**75** 1,3,5,15, 25,75	**76** 1,2,4,19, 38,76	**77** 1,7,11,77	**78** 1,2,3,6,13, 26,39,78	**79** Prime 1,79	**80** 1,2,4,5,8 10,16,20 40,80
81 1,3,9,27,81	**82** 1,2,41,82	**83** Prime 1,83	**84** 1,2,3,4,6, 7,2,14,21, 28,42,84	**85** 1,5,17,85	**86** 1,2,43,86	**87** 1,3,29,87	**88** 1,2,4,8,11, 22,44,88	**89** Prime 1,89	**90** 1,2,3,5,6, 9,10,15, 18,30
91 1,7,13,91	**92** 1,2,4,23, 46,92	**93** 1,3,31,93	**94** 1,2,4,16, 47,94	**95** 1,5,19,95	**96** 1,2,3,4,6,8, 12,16,24, 32,48,96	**97** Prime 1,97	**98** 1,2,7,14, 49,98	**99** 1,3,9,11, 33,99	**100** 1,2,4,5, 10,20,2550 ,100

Multiplication Table - 25x25

	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
1	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
2	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
3	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75
4	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100
5	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125
6	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144	150
7	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140	147	154	161	168	175
8	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160	168	176	184	192	200
9	9	18	27	36	45	54	63	72	81	90	99	108	117	126	135	144	153	162	171	180	189	198	207	216	225
10	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
11	11	22	33	44	55	66	77	88	99	110	121	132	143	154	165	176	187	198	209	220	231	242	253	264	275
12	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300
13	13	26	39	52	65	78	91	104	117	130	143	156	169	182	195	208	221	234	247	260	273	286	299	312	325
14	14	28	42	56	70	84	98	112	126	140	154	168	182	196	210	224	238	252	266	280	294	308	322	336	350
15	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360	375
16	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	368	384	400
17	17	34	51	68	85	102	119	136	153	170	187	204	221	238	255	272	289	306	323	340	357	374	391	408	425
18	18	36	54	72	90	108	126	144	162	180	198	216	234	252	270	288	306	324	342	360	378	396	414	432	450
19	19	38	57	76	95	114	133	152	171	190	209	228	247	266	285	304	323	342	361	380	399	418	437	456	475
20	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
21	21	42	63	84	105	126	147	168	189	210	231	252	273	294	315	336	357	378	399	420	441	462	483	504	525
22	22	44	66	88	110	132	154	176	198	220	242	264	286	308	330	352	374	396	418	440	462	484	506	528	550
23	23	46	69	92	115	138	161	184	207	230	253	276	299	322	345	368	391	414	437	460	483	506	529	552	575
24	24	48	72	96	120	144	168	192	216	240	264	288	312	336	360	384	408	432	456	480	504	528	552	576	600
25	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625