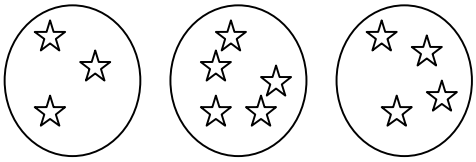
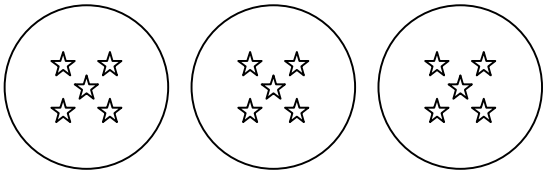
Mat 1 – Display Sheet

Unlike Groups:



3 + 5 + 4 = 12

Like Groups:



5 + 5 + 5 = 15

Number of Groups	Number in Each Group	Total (in all)
3	5	a. _____
2	6	b. _____
3	4	c. _____
1	9	d. _____
2	0	e. _____
0	7	f. _____
5	1	g. _____
1	8	h. _____

Mat 1 – Display Sheet

Mat 2 - Multiplication Mat

Number of Groups		Number in Each Group		Total (in all)
_____	◯	_____	◯	_____

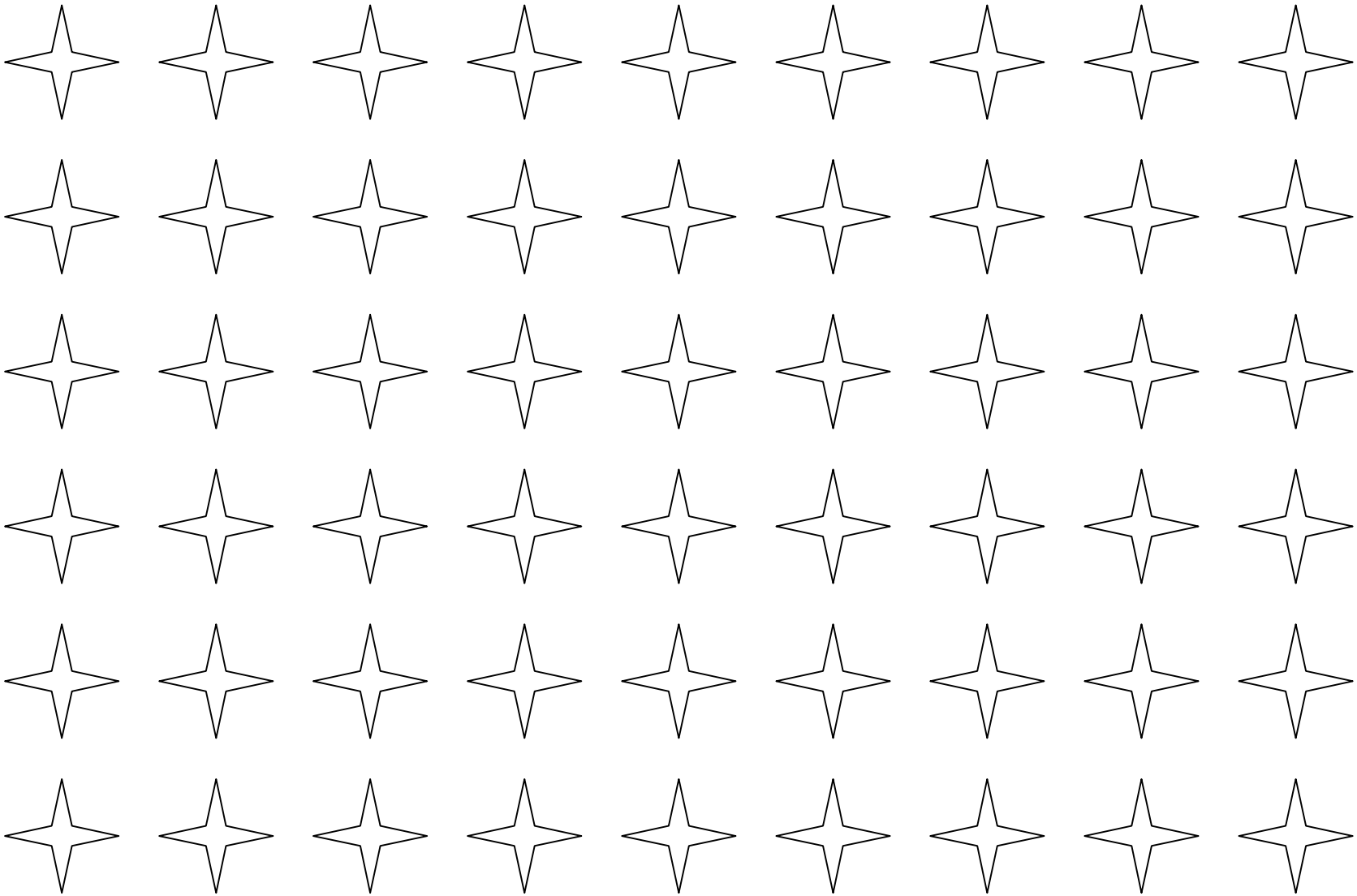
Mat 3 - Multiplication Array Sheet

Number of Rows	Number in Each Row	Total		Rows		Number in Each Row		In All
3	6	_____	(	_____	X	_____	=	_____)
2	8	_____	(	_____	X	_____	=	_____)
1	9	_____	(	_____	X	_____	=	_____)
4	5	_____	(	_____	X	_____	=	_____)
5	4	_____	(	_____	X	_____	=	_____)

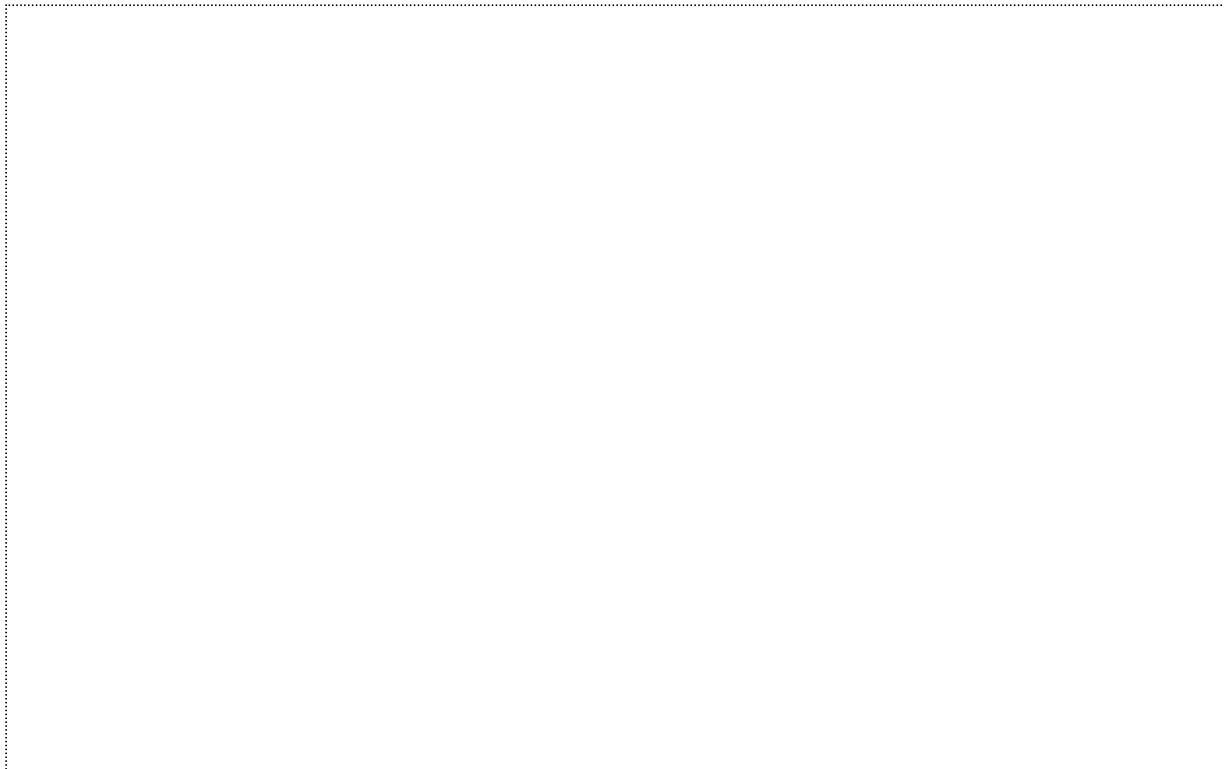
Mat 4 - Multiplication Array Mat

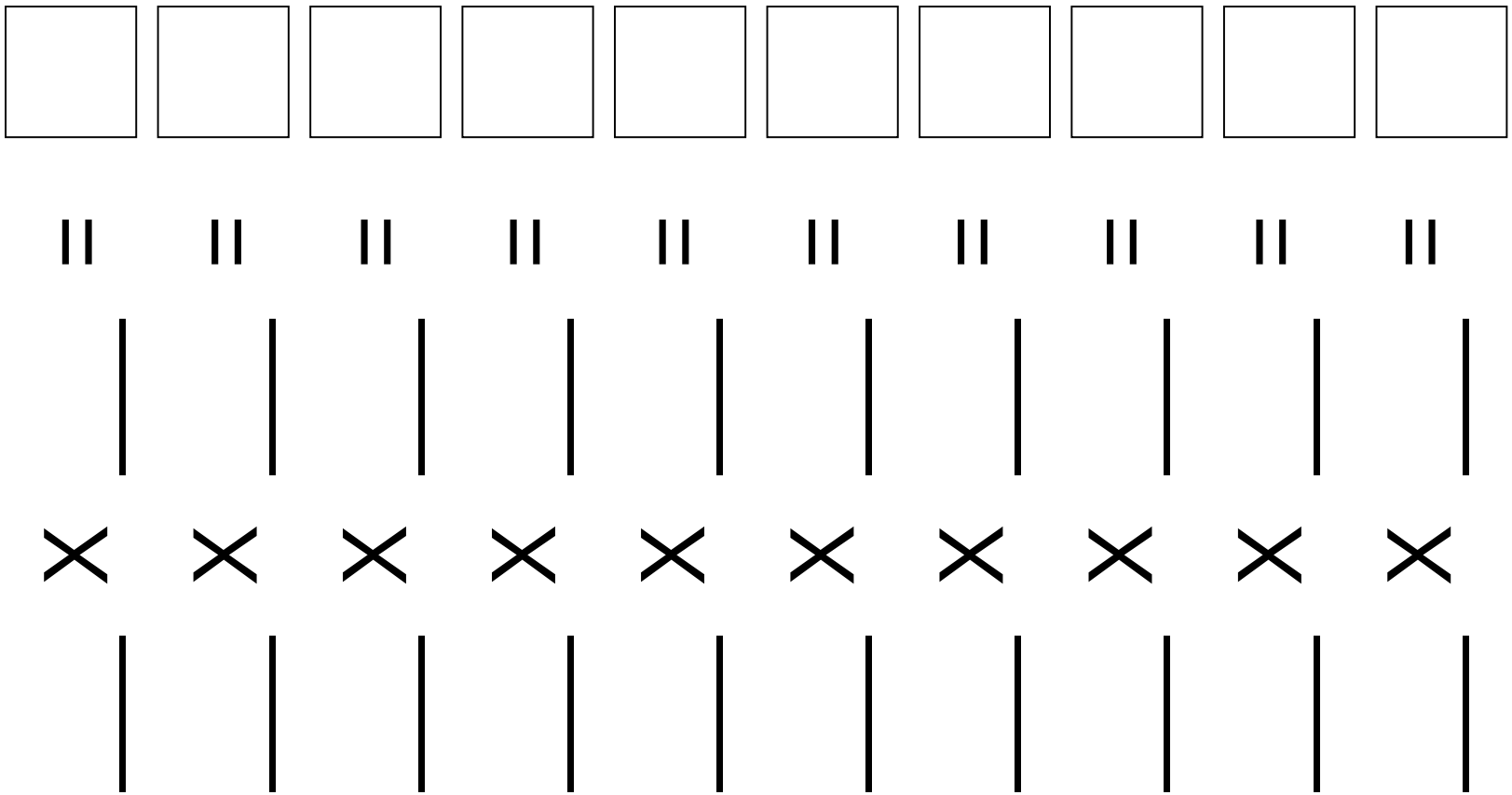
	Number of Rows	Number in Each Row	Total (in all)	
1.	_____	_____	_____	_____ X _____ **=** _____
2.	_____	_____	_____	_____ X _____ **=** _____

Mat 5 – Star Array



Mat 6 – L-Sheet (cut on dotted line)





Mat 7 - Multiplication Recording Sheet

Mat 8 - Division Mat

Total (in all)

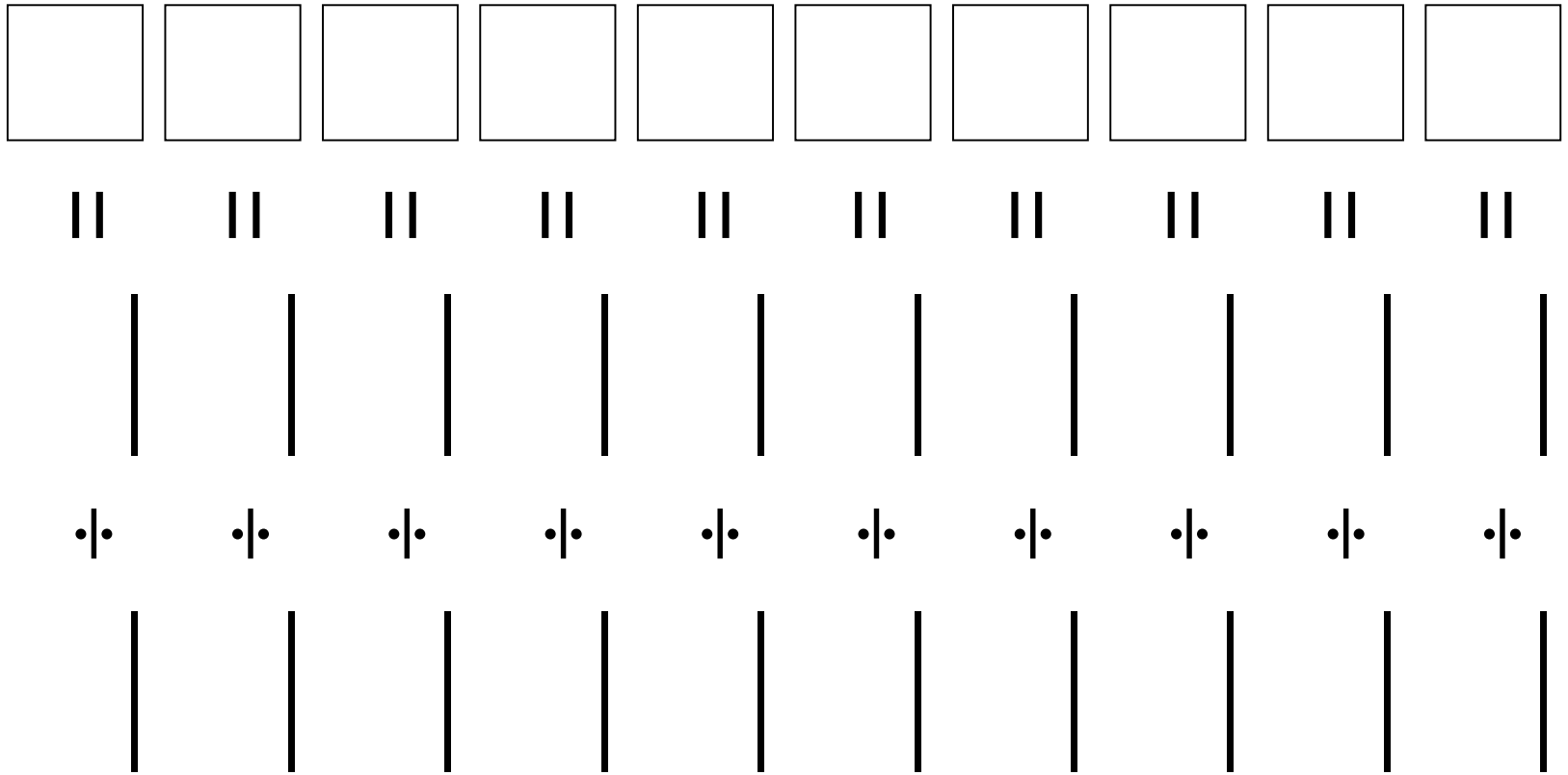
_____ _____ _____

Mat 9 - Division Array Mat

1.	_____	_____	_____	_____ ÷ _____ = _____
2.	_____	_____	_____	_____ ÷ _____ = _____
				_____ x _____ = _____
				_____ x _____ = _____

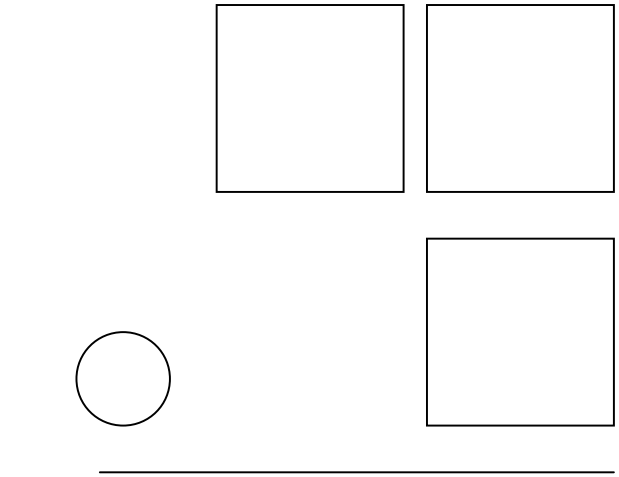
Mat 10 - Division Array Sheet

Total (in all)	Number of Rows	Number in Each Row						
18	3	_____	(18	÷	_____	=	_____	)
16	2	_____	(16	÷	_____	=	_____	)
24	6	_____	(24	÷	_____	=	_____	)
21	3	_____	(21	÷	_____	=	_____	)
15	_____	5	(15	÷	_____	=	_____	)
27	_____	9	(27	÷	_____	=	_____	)
14	_____	7	(14	÷	_____	=	_____	)

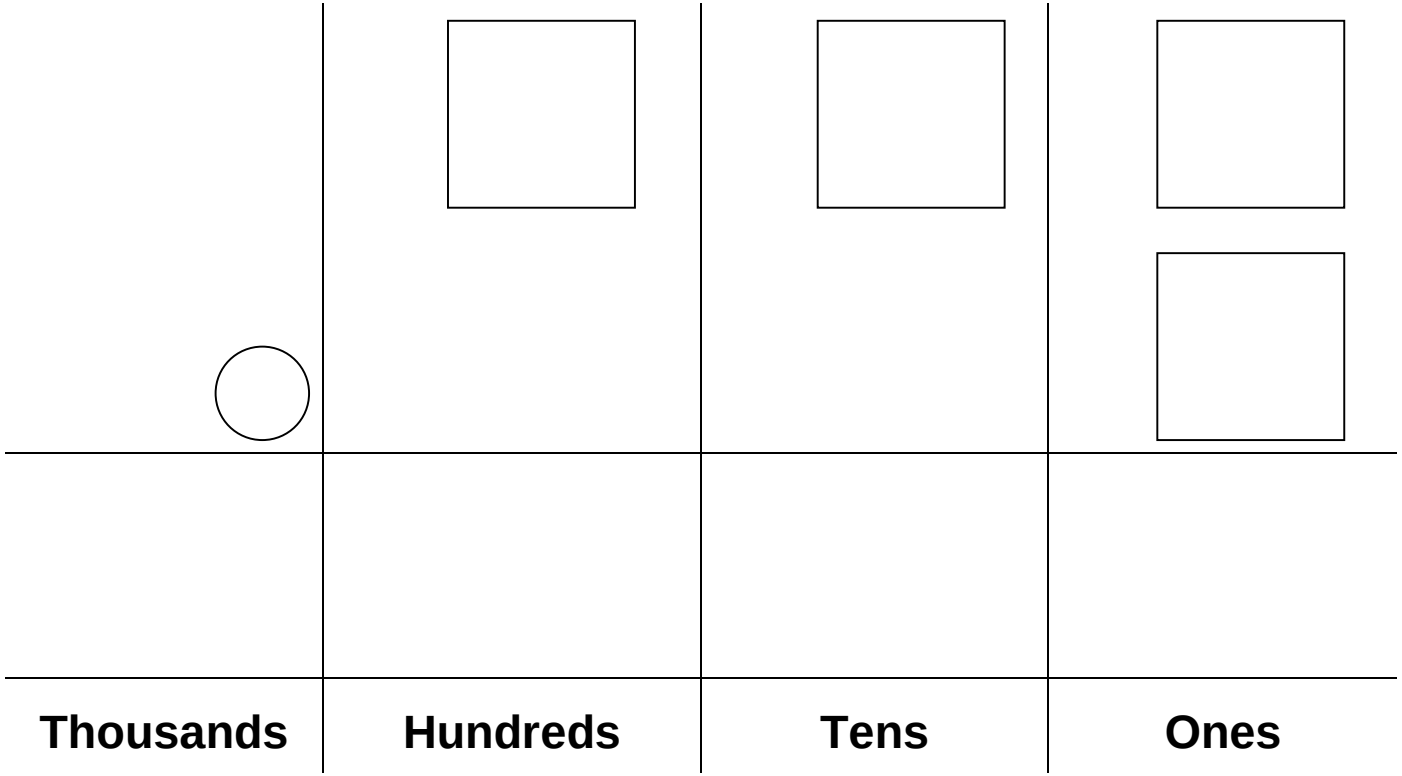


Mat 11 - Division Recording Sheet

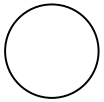
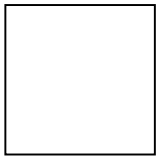
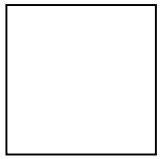
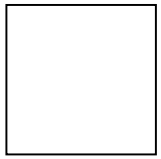
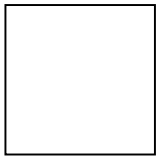
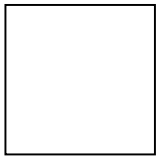
Mat 12 - Two-digit Multiplication Mat



Mat 13 - Blank Multiplication Map



Mat 14 - Blank 2-digit Multiplication Sheet

			 	 	
					By ones
					By tens
Ten Thousands	**Thousands**	**Hundreds**	**Tens**	**Ones**	

	by ones	by tens	by both	
16	16	16	16	
X 14	X 4	X 10	X 14	
			_____	by ones
			+ _____	by tens

	by ones	by tens	by both	
24	24	24	24	
X 32	X 2	X 30	X 32	
			_____	by ones
			+ _____	by tens

by ones by tens by both

X ___ X ___ X ___ X ___

_____ by ones

\+ _____ by tens

MD6 Practice - Multiplication Problem Worksheet

$$\begin{array}{r} 123 \\ \times \quad 3 \\ \hline \end{array} \qquad \begin{array}{r} 321 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 91 \\ \times \quad 6 \\ \hline \end{array} \qquad \begin{array}{r} 32 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 502 \\ \times \quad 3 \\ \hline \end{array} \qquad \begin{array}{r} 42 \\ \times \quad 3 \\ \hline \end{array}$$

MD6 Practice - Multiplication Problem Worksheet

$$18 \div 3 =$$

$$3\overline{)18}$$

$$16 \div 2 =$$

$$2\overline{)16}$$

Mat 16 - Division Symbols

	Six divided by three	$3\overline{)6}$	$6 \div 3 =$	$\frac{6}{3}$

a.	How many threes in 15?			
b.	7 goes into 56			
c.	320 divided by 15			
d.	21 divided into 7 equal groups			

Mat 17 - Division Language A

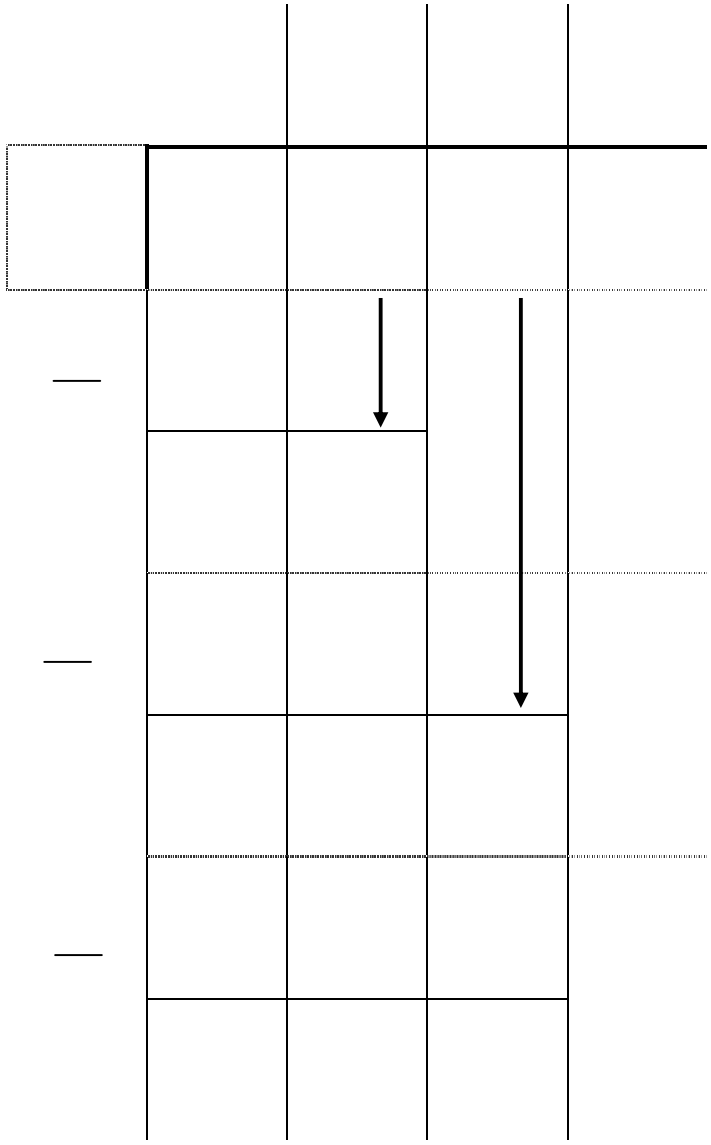
	Six divided by three	$3\overline{)6}$	$6 \div 3 =$	$\frac{6}{3}$

a.	How many _____ in _____?			
b.	_____ goes into _____			
c.	_____ divided by _____			
d.	_____ divided into _____ equal groups			

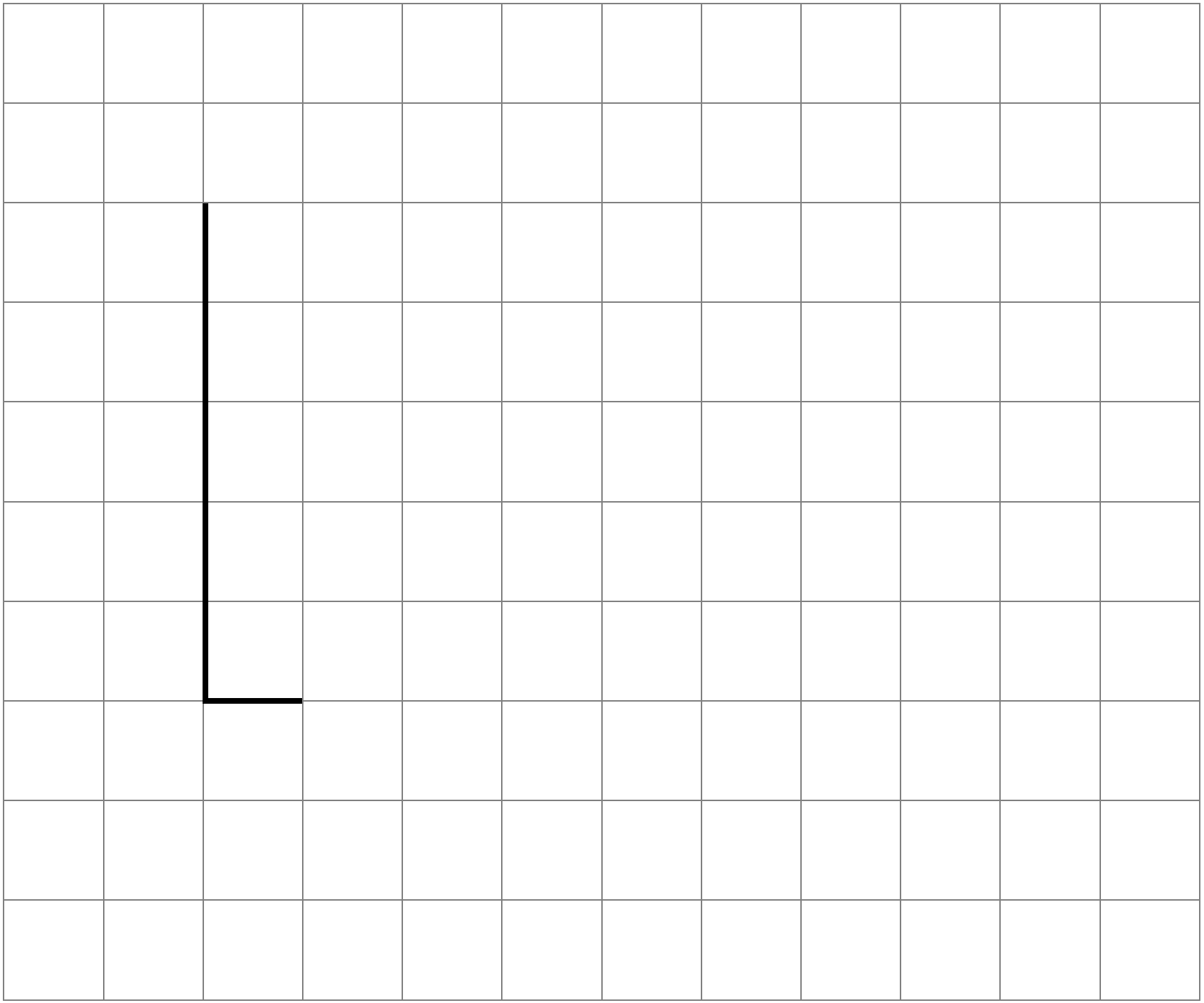
Mat 18 - Division Language B

Mat 19 – Blank Division Mat

Mat 20 - 1-digit Divisor Sheet with Lines



Mat 21 – 2-digit Division Sheet



Mat 22 - Zeros and Ones

1 x 7 = _____ **7 x 1 = _____**

1 x 9 = _____ **9 x 1 = _____**

1 x ___ = ___ **___ x 1 = ___**

0
x 4

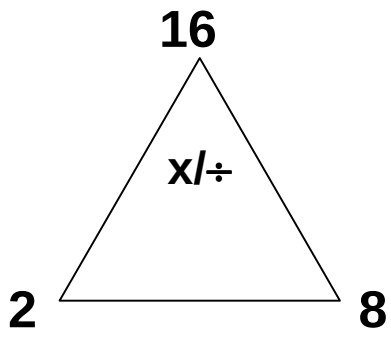
4
x 0

0
x ___

x 0

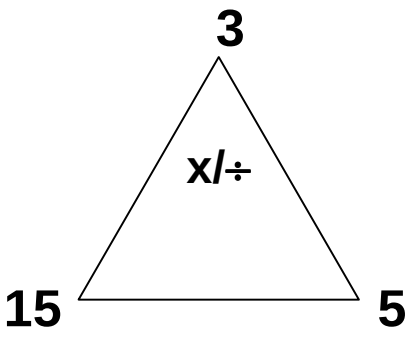
Mat 22 – Zeros and Ones

Mat 23 – Fact Families (x/÷)



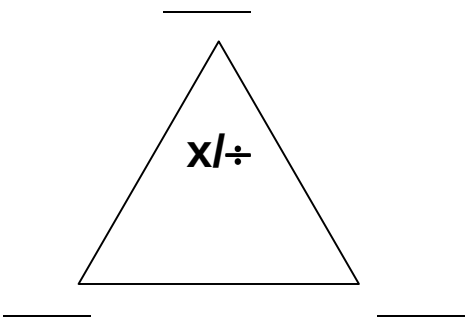
_____ x _____ = 16 16 ÷ _____ = _____

_____ x _____ = 16 16 ÷ _____ = _____



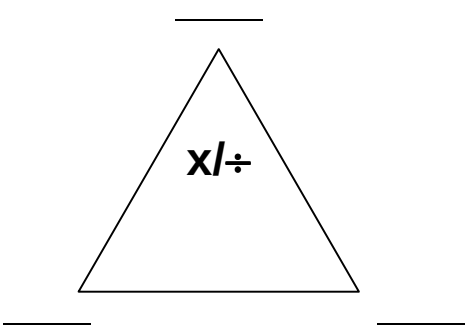
_____ x _____ = 15 15 ÷ _____ = _____

_____ x _____ = 15 15 ÷ _____ = _____



_____ x _____ = _____ _____ ÷ _____ = _____

_____ x _____ = _____ _____ ÷ _____ = _____

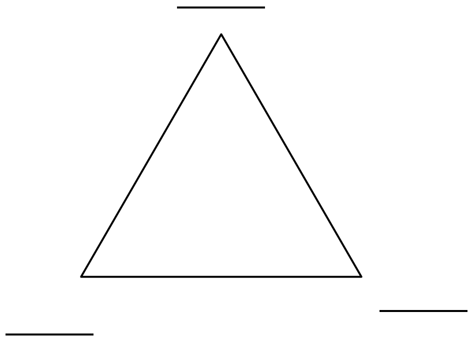


_____ x _____ = _____ _____ ÷ _____ = _____

_____ x _____ = _____ _____ ÷ _____ = _____

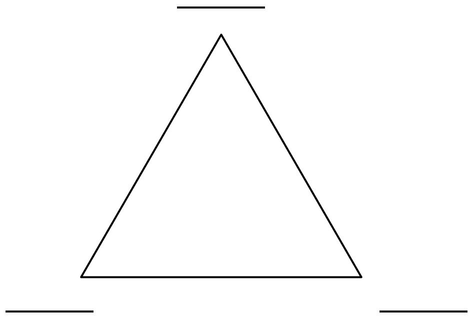
Mat 23 – Fact Families (x/÷)

Mat 24 – Blank Fact Family Sheet



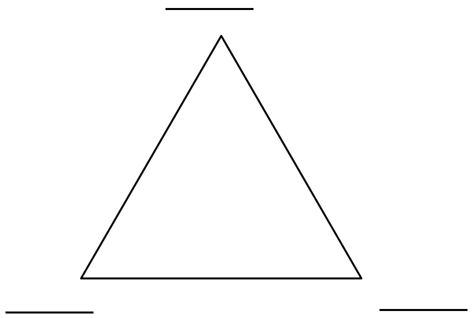
____ ____ = ____ ____ ____ = ____

____ ____ = ____ ____ ____ = ____



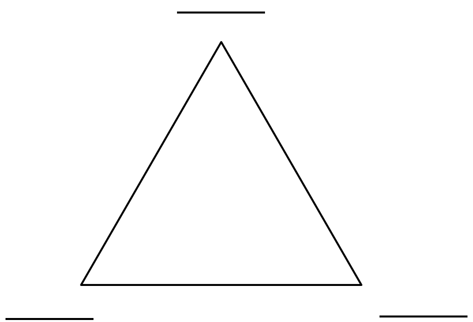
____ ____ = ____ ____ ____ = ____

____ ____ = ____ ____ ____ = ____



____ ____ = ____ ____ ____ = ____

____ ____ = ____ ____ ____ = ____



____ ____ = ____ ____ ____ = ____

____ ____ = ____ ____ ____ = ____

Mat 24 – Blank Fact Family Sheet

0	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

Mat 25 – 0-99 Chart

2	5	8	10
1	4	7	0
0	3	6	9

6 x 4 = ?

Try:

1. Use turn-around facts.

   4 x 6 = _____

2. Add.

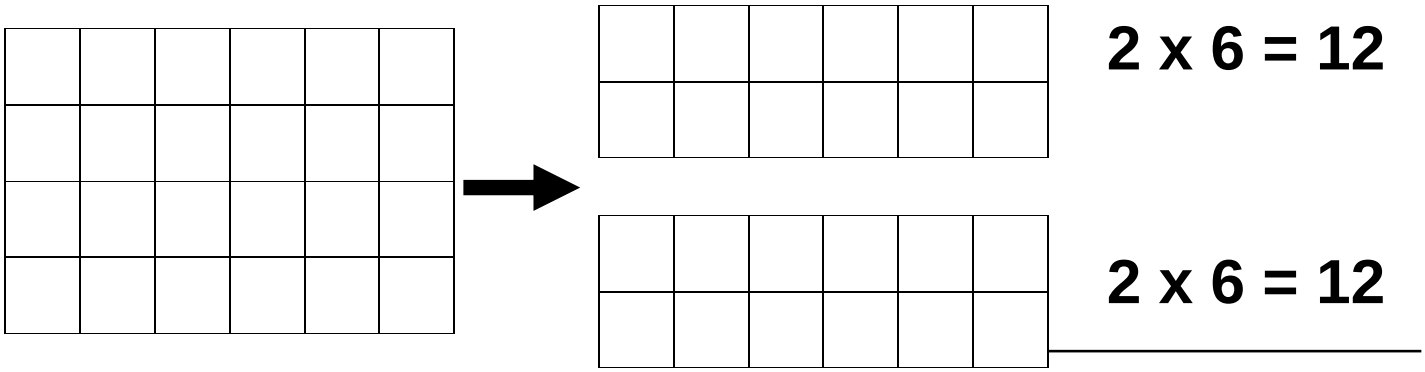
   4 sixes is 6 + 6 + 6 + 6

3. Use what you know.

   2 sixes + 2 sixes (12 + 12)

Mat 27 - Multiplication Strategies

Mat 28 - Using Smaller Arrays



2 x 6 = 12

2 x 6 = 12

4 x 6 = 24

Mat 28 - Using Smaller Arrays

$24 \div 8 = ?$

Try:

1. Use multiplication.

   8 x _____ = 24

2. Subtract.

   Start with 24. Take out groups of 8. Count the groups. 24 – 8 – 8 – 8

3. Use what you know.

   2 eights is 16. One more eight makes 24. That's 3 eights.

Mat 29 - Division Strategies

Mat 30 - Products of 9 (with answers)

9 x 0 = 0

9 x 1 = 9

9 x 2 = 18

9 x 3 = 27

9 x 4 = 36

9 x 5 = 45

9 x 6 = 54

9 x 7 = 63

9 x 8 = 72

9 x 9 = 81

9 x 10 = 90

Mat 30 - Products of 9 (with answers

Mat 31 - Products of 9 (without answers)

9 x 0 = ____

9 x 1 = ____

9 x 2 = ____

9 x 3 = ____

9 x 4 = ____

9 x 5 = ____

9 x 6 = ____

9 x 7 = ____

9 x 8 = ____

9 x 9 = ____

9 x 10 = ____

Mat 31 - Products of 9 (without answers)

Mat 32 – Multiplication Chart (3 pages)

X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144
13	13	26	39	52	65	78	91	104	117	130	143	156
14	14	28	42	56	70	84	98	112	126	140	154	168
15	15	30	45	60	75	90	105	120	135	150	165	180
16	16	32	48	64	80	96	112	128	144	160	176	192
17	17	34	51	68	85	102	119	136	153	170	187	204
18	18	36	54	72	90	108	126	144	162	180	198	216
19	19	38	57	76	95	114	133	152	171	190	209	228
20	20	40	60	80	100	120	140	160	180	200	220	240
21	21	42	63	84	105	126	147	168	189	210	231	252
22	22	44	66	88	110	132	154	176	198	220	242	264
23	23	46	69	92	115	138	161	184	207	230	253	276
24	24	48	72	96	120	144	168	192	216	240	264	288
25	25	50	75	100	125	150	175	200	225	250	275	300
26	26	52	78	104	130	156	182	208	234	260	286	312
27	27	54	81	108	135	162	189	216	243	270	297	324
28	28	56	84	112	140	168	196	224	252	280	308	336
29	29	58	87	116	145	174	203	232	261	290	319	348
30	30	60	90	120	150	180	210	240	270	300	330	360
31	31	62	93	124	155	186	217	248	279	310	341	372
32	32	64	96	128	160	192	224	256	288	320	352	384
33	33	66	99	132	165	198	231	264	297	330	363	396
34	34	68	102	136	170	204	238	272	306	340	374	408
35	35	70	105	140	175	210	245	280	315	350	385	420
36	36	72	108	144	180	216	252	288	324	360	396	432
37	37	74	111	148	185	222	259	296	333	370	407	444

X	1	2	3	4	5	6	7	8	9	10	11	12
38	38	76	114	152	190	228	266	304	342	380	418	456
39	39	78	117	156	195	234	273	312	351	390	429	468
40	40	80	120	160	200	240	280	320	360	400	440	480
41	41	82	123	164	205	246	287	328	369	410	451	492
42	42	84	126	168	210	252	294	336	378	420	462	504
43	43	86	129	172	215	258	301	344	387	430	473	516
44	44	88	132	176	220	264	308	352	396	440	484	528
45	45	90	135	180	225	270	315	360	405	450	495	540
46	46	92	138	184	230	276	322	368	414	460	506	552
47	47	94	141	188	235	282	329	376	423	470	517	564
48	48	96	144	192	240	288	336	384	432	480	528	576
49	49	98	147	196	245	294	343	392	441	490	539	588
50	50	100	150	200	250	300	350	400	450	500	550	600
51	51	102	153	204	255	306	357	408	459	510	561	612
52	52	104	156	208	260	312	364	416	468	520	572	624
53	53	106	159	212	265	318	371	424	477	530	583	636
54	54	108	162	216	270	324	378	432	486	540	594	648
55	55	110	165	220	275	330	385	440	495	550	605	660
56	56	112	168	224	280	336	392	448	504	560	616	672
57	57	114	171	228	285	342	399	456	513	570	627	684
58	58	116	174	232	290	348	406	464	522	580	638	696
59	59	118	177	236	295	354	413	472	531	590	649	708
60	60	120	180	240	300	360	420	480	540	600	660	720
61	61	122	183	244	305	366	427	488	549	610	671	732
62	62	124	186	248	310	372	434	496	558	620	682	744
63	63	126	189	252	315	378	441	504	567	630	693	756
64	64	128	192	256	320	384	448	512	576	640	704	768
65	65	130	195	260	325	390	455	520	585	650	715	780
66	66	132	198	264	330	396	462	528	594	660	726	792
67	67	134	201	268	335	402	469	536	603	670	737	804
68	68	136	204	272	340	408	476	544	612	680	748	816
69	69	138	207	276	345	414	483	552	621	690	759	828
70	70	140	210	280	350	420	490	560	630	700	770	840
71	71	142	213	284	355	426	497	568	639	710	781	852
72	72	144	216	288	360	432	504	576	648	720	792	864
73	73	146	219	292	365	438	511	584	657	730	803	876
74	74	148	222	296	370	444	518	592	666	740	814	888

X	1	2	3	4	5	6	7	8	9	10	11	12
75	75	150	225	300	375	450	525	600	675	750	825	900
76	76	152	228	304	380	456	532	608	684	760	836	912
77	77	154	231	308	385	462	539	616	693	770	847	924
78	78	156	234	312	390	468	546	624	702	780	858	936
79	79	158	237	316	395	474	553	632	711	790	869	948
80	80	160	240	320	400	480	560	640	720	800	880	960
81	81	162	243	324	405	486	567	648	729	810	891	972
82	82	164	246	328	410	492	574	656	738	820	902	984
83	83	166	249	332	415	498	581	664	747	830	913	996
84	84	168	252	336	420	504	588	672	756	840	924	1008
85	85	170	255	340	425	510	595	680	765	850	935	1020
86	86	172	258	344	430	516	602	688	774	860	946	1032
87	87	174	261	348	435	522	609	696	783	870	957	1044
88	88	176	264	352	440	528	616	704	792	880	968	1056
89	89	178	267	356	445	534	623	712	801	890	979	1068
90	90	180	270	360	450	540	630	720	810	900	990	1080
91	91	182	273	364	455	546	637	728	819	910	1001	1092
92	92	184	276	368	460	552	644	736	828	920	1012	1104
93	93	186	279	372	465	558	651	744	837	930	1023	1116
94	94	188	282	376	470	564	658	752	846	940	1034	1128
95	95	190	285	380	475	570	665	760	855	950	1045	1140
96	96	192	288	384	480	576	672	768	864	960	1056	1152
97	97	194	291	388	485	582	679	776	873	970	1067	1164
98	98	196	294	392	490	588	686	784	882	980	1078	1176
99	99	198	297	396	495	594	693	792	891	990	1089	1188