

IDENTIFYING NUMBER PATTERNS

3rd Grade



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DATE: _____
IDENTIFYING NUMBER PATTERNS
SOLE MATES

Shoes below form input/output tables that follow a number pattern. Cut out the shoes and paste them in the correct pairs of shoes.

In	Out
14	71
38	71
6	3
24	8
3	8
24	8
9	36
7	28
10	40
2	8
46	32
83	69
62	48
90	76
49	22
72	9
56	7
3	24
5	40
7	56
6	48
49	22
27	0
52	25
25	85
73	33
52	12
46	6

DATE: _____
IDENTIFYING NUMBER PATTERNS
MULTIPLICATION DETECTIVE
 v6



DATE: _____
IDENTIFYING NUMBER PATTERNS
INPUT/OUTPUT TABLES

MULTIPLICATION DETECTIVE x2

Directions: Complete the multiplication facts below. Then, drag the yellow squares to shade in all the multiples of 2 on the hundreds chart. Use your detective skills to make observations about patterns you observe.

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

Drag a checkmark inside the magnifying glasses with true observations.

- The multiples of 2 are all even
- All multiples of 2 have a 0, 2, 4, 6, or 8 in the ones place
- 2 multiplied by an odd number produces an odd product
- All tens digits in multiples of 2 are even

DATE: _____
IDENTIFYING NUMBER PATTERNS
CORN BAKERY

Identify the rule the pattern follows. Use the pattern...

28 35 42

76 68 60 52 44 36

48 46 43 39 34

35 45 40 50 45 55

99 87 63 45 27 9

12 14 18 24 32 42

160 80 40 20 10

Rule: Add 7

Rule: Subtract 8

Rule: Subtract 3, 4, 5

Rule: Add 10, then subtract 5

Rule: Subtract 12

Rule: Add 2, 4, 6, 8, 10

Rule: Divide by 2

550	9
842	4
237	6
156	2

Rule: _____

2

Rule: _____



IDENTIFYING NUMBER PATTERNS INPUT/OUTPUT

DATE: _____

...ns on addition patterns, and he needs your help to crack the
...nning! Complete the tables below by determining the addition

In	Out
52	60
65	73
83	91
98	

IDENTIFYING NUMBER PATTERNS PAINTER'S BAKERY

NAME: _____

DATE: _____

Directions: For each sequence below, identify the rule the pattern follows. Use the pattern rule to write in the missing numbers.

- 7, 14, 21, 28, 35, 42

Rule: Add 7
- 76, 68, 60, 52, 44, 36

Rule: Subtract 8
- 18, 16, 14, 12, 10, 8, 6, 4, 2

Rule: Subtract 2, 3, 4, 5, 6
- 35, 45, 55, 65, 75, 85, 95

Rule: Add 10, then subtract 5
- 99, 63, 27

Rule: Subtract 18
- 12, 14, 16, 18, 20, 22, 24, 26, 28, 30

Rule: Add 2
- 160, 144, 128, 112, 96, 80, 64, 48, 32, 16, 0

Rule: Subtract 16

IDENTIFYING NUMBER PATTERNS STORY PROBLEMS

DATE: _____

NAME: _____

Directions: Use number patterns to solve the following story problems. Explain how you arrived at each of your answers.

- On Monday, Ms. Washington gave the students in her class 10 minutes of homework. On Tuesday, she assigned 15 minutes of homework, and on Wednesday, she assigned 20 minutes of homework. If Ms. Washington continues this pattern, how many minutes of homework will the students receive on Thursday?

25 minutes
Pattern is add 5
- Ryan has not been studying his spelling words. Last week, he earned a 92 on his spelling quiz. If Ryan continues this pattern, how many points will he earn next week?
- Luisa received a 92 on her spelling quiz. If she continues this pattern, how many points will she earn next week?

NUMBER PATTERNS SHOE MATES

...w form input/output tables that follow a number pattern,
...om each! Cut out the shoes and paste them in the correct
...ll the pairs of shoes.

In	Out
6	32
9	38
12	44
15	50
18	56
21	62
24	68
27	74
30	80
33	86
36	92
39	98
42	104
45	110
48	116
51	122
54	128
57	134
60	140
63	146
66	152
69	158
72	164
75	170
78	176
81	182
84	188
87	194
90	200
93	206
96	212
99	218
102	224
105	230
108	236
111	242
114	248
117	254
120	260
123	266
126	272
129	278
132	284
135	290
138	296
141	302
144	308
147	314
150	320
153	326
156	332
159	338
162	344
165	350
168	356
171	362
174	368
177	374
180	380
183	386
186	392
189	398
192	404
195	410
198	416
201	422
204	428
207	434
210	440
213	446
216	452
219	458
222	464
225	470
228	476
231	482
234	488
237	494
240	500
243	506
246	512
249	518
252	524
255	530
258	536
261	542
264	548
267	554
270	560
273	566
276	572
279	578
282	584
285	590
288	596
291	602
294	608
297	614
300	620
303	626
306	632
309	638
312	644
315	650
318	656
321	662
324	668
327	674
330	680
333	686
336	692
339	698
342	704
345	710
348	716
351	722
354	728
357	734
360	740
363	746
366	752
369	758
372	764
375	770
378	776
381	782
384	788
387	794
390	800
393	806
396	812
399	818
402	824
405	830
408	836
411	842
414	848
417	854
420	860
423	866
426	872
429	878
432	884
435	890
438	896
441	902
444	908
447	914
450	920
453	926
456	932
459	938
462	944
465	950
468	956
471	962
474	968
477	974
480	980
483	986
486	992
489	998
492	1004
495	1010
498	1016
501	1022
504	1028
507	1034
510	1040
513	1046
516	1052
519	1058
522	1064
525	1070
528	1076
531	1082
534	1088
537	1094
540	1100
543	1106
546	1112
549	1118
552	1124
555	1130
558	1136
561	1142
564	1148
567	1154
570	1160
573	1166
576	1172
579	1178
582	1184
585	1190
588	1196
591	1202
594	1208
597	1214
600	1220
603	1226
606	1232
609	1238
612	1244
615	1250
618	1256
621	1262
624	1268
627	1274
630	1280
633	1286
636	1292
639	1298
642	1304
645	1310
648	1316
651	1322
654	1328
657	1334
660	1340
663	1346
666	1352
669	1358
672	1364
675	1370
678	1376
681	1382
684	1388
687	1394
690	1400
693	1406
696	1412
699	1418
702	1424
705	1430
708	1436
711	1442
714	1448
717	1454
720	1460
723	1466
726	1472
729	1478
732	1484
735	1490
738	1496
741	1502
744	1508
747	1514
750	1520
753	1526
756	1532
759	1538
762	1544
765	1550
768	1556
771	1562
774	1568
777	1574
780	1580
783	1586
786	1592
789	1598
792	1604
795	1610
798	1616
801	1622
804	1628
807	1634
810	1640
813	1646
816	1652
819	1658
822	1664
825	1670
828	1676
831	1682
834	1688
837	1694
840	1700
843	1706
846	1712
849	1718
852	1724
855	1730
858	1736
861	1742
864	1748
867	1754
870	1760
873	1766
876	1772
879	1778
882	1784
885	1790
888	1796
891	1802
894	1808
897	1814
900	1820
903	1826
906	1832
909	1838
912	1844
915	1850
918	1856
921	1862
924	1868
927	1874
930	1880
933	1886
936	1892
939	1898
942	1904
945	1910
948	1916
951	1922
954	1928
957	1934
960	1940
963	1946
966	1952
969	1958
972	1964
975	1970
978	1976
981	1982
984	1988
987	1994
990	2000
993	2006
996	2012
999	2018

IDENTIFYING NUMBER PATTERNS MULTIPLICATION DETECTIVE

DATE: _____

NAME: _____

Directions: Complete the multiplication facts below. Then, color in all the multiples of 6 on the hundreds chart. Use your detective skills to make observations about patterns you observe.

- 6 x 1 = _____
- 6 x 2 = _____
- 6 x 3 = _____
- 6 x 4 = _____
- 6 x 5 = _____
- 6 x 6 = _____
- 7 = _____

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

NAME: _____

MULTIPLY

Directions: Complete the multiplication chart. Use your dot marker.

- $6 \times 1 =$ _____
- $6 \times 2 =$ _____
- $6 \times 3 =$ _____
- $6 \times 4 =$ _____
- $6 \times 5 =$ _____
- $6 \times 6 =$ _____

IDENTIFY PATT

Directions: For each sequence below, identify the pattern rule to write in the missing numbers.

1   

2   

3   

NAME: _____

ADD

Directions: Roger the Robot runs an addition code and keep a record of the code by writing the rule and filling in the missing numbers.

NAME: _____

Directions: Complete the input/output table.

In	Out
56	
23	
97	47
42	14
145	88
	33
	136

1

4

In	Out
30	
27	10
12	9
18	4
6	6
	2

In	Out
274	
538	
842	
237	
156	962
	357
	276

ADDITION ROBOT

Directions: Roger the Robot runs an addition code and needs your help to crack the code and keep all his parts running! Complete the tables by determining the addition rule and filling in the blanks. Once you've completed the table, drag the robot part to the assembly area to put Roger together!

In	Out
52	60
65	
83	
98	


In	Out
88	
121	146
146	
179	

In	Out
268	
369	
462	623
529	

In	Out
15	
37	
59	
145	157

In	Out
157	
193	234
294	
	266

In	Out
68	270
92	
	35
135	



ROBOT ASSEMBLY AREA

DATE: _____

NUMBER PATTERNS PROBLEMS

Solve the following story problem.

Washington gave the students 15 minutes on Tuesday, she assigned 15 minutes of homework. How many minutes did she assign 20 minutes of homework? How many minutes did she assign this pattern, how many minutes...

IDENTIFY

Directions: The pairs of shoes below are missing one shoe. Cut out the shoes and glue them into the empty space to match up the pairs.

In	Out



IDENTIFYING NUMBER PATTERNS

INPUT/OUTPUT

addition patterns...
complete the table-

IDENTIFYING NUMBER PATTERNS TEST

complete the input/output charts by finding the rule and writing it in the margin.

In	Out
56	47
23	14
97	

2

In	Out
5	35
3	21
7	49
8	56
	14

NUMBER PATTERNS MATES

output tables that follow a number pattern, cut them out and paste them in the correct shoes and paste them in the correct

DETECTIVE

Use detective skills to make observations about patterns you observe.

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

- $6 \times 2 =$
- $6 \times 3 =$
- $6 \times 4 =$
- $6 \times 5 =$
- $6 \times 6 =$
- $6 \times 7 =$
- $6 \times 8 =$
- $6 \times 9 =$
- $6 \times 10 =$

Draw a checkmark inside the magnifying glasses with the numbers that are multiples of 6. The multiples of 6 are all odd. The multiples of 6 are all even.

INPUT/OUTPUT TABLES

Directions: Complete the input/output tables below. Write the rule you used to find the missing numbers.

1

In	Out
4	24
7	42
2	
10	
3	18

Rule: _____

2

In	Out
78	102
34	58
56	80
12	
85	

Rule: _____

3

In	Out
15	
20	
10	
45	9
35	7

Rule: _____

IDENTIFYING NUMBER PATTERNS

PATTERN BAKERY

Directions: For each sequence below, identify the rule the pattern follows. Use the pattern rule to write the missing numbers.

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

NUMBER PATTERNS PROBLEMS

1. Explain how you arrived at the answer.

2. Ryan gave the students in her class 10 minutes of homework, and on Thursday, she assigned 15 minutes of homework, and on Friday, she assigned 20 minutes of homework. If Ms. Washington continues this pattern, how many minutes of homework will the students have on Saturday?

3. Ryan has not been studying his spelling words lately. Two weeks ago, he earned a 92 on his spelling quiz. Last week, he earned an 85. This week, he earned a 78. If Ryan continues this pattern, what score will he earn next week?

4. Luisa reads a book every day. On Friday, she read 8 pages, and on Saturday, she read 12 pages. If she continues this pattern, how many pages will she read on Sunday?

25 minutes
Pattern is +5

71
Pattern is subtract

IDENTIFYING NUMBER PATTERNS ON INPUT

Directions: Complete the tables using addition patterns, or subtraction patterns. Explain how you arrived at each of your answers.



NAME: _____

Directions: Complete the tables using numbers.

1

In	Out
56	
23	
9	
4	
1	

Rule: _____

12	
18	6
5	2

Rule: _____

23	
156	

Rule: _____



8

1

NAME: _____ DATE: _____

IDENTIFYING NUMBER PATTERNS STORY PROBLEMS

Directions: Use number patterns to solve the following story problems. Explain how you arrived at each of your answers.

- 1 On Monday, Ms. Washington gave the class 30 minutes of homework. On Tuesday, she gave the class 10 minutes of homework. On Wednesday, she assigned the class 6 minutes of homework. On Thursday, she assigned the class 3 minutes of homework. How many minutes of homework will the class receive on Thursday?

- 2 Ryan has not been studying. On Monday, he received a 92 on his spelling test. On Tuesday, he received a 78. On Wednesday, he received a 64. On Thursday, he received a 50. How many points will Ryan earn next week?

- 3 Luisa reads a book every day. On Monday, she read 8 pages, and on Tuesday, she read 12 pages. On Wednesday, she read 16 pages. How many pages will she read on Thursday?

Pattern

32 p.

Pattern

IDENTIFYING NUMBER PATTERNS SHOE

Directions: The pairs of shoes below form a pattern. Identify the number on the missing shoe. Write the number in the empty space to match up all the pairs of shoes.

In	Out
30	10
18	6
9	3
24	8

In	Out
9	36
7	28
10	40
2	8

Example Pattern

NAME: _____ DATE: _____

IDENTIFYING NUMBER PATTERNS MULTIP

Directions: Complete the multiplication problems using the hundreds chart. Use your drawing to help you.

- 6 x 1 = _____
 6 x 2 = _____
 6 x 3 = _____
 6 x 4 = _____
 6 x 5 = _____
 6 x 6 = _____
 6 x 7 = _____
 6 x 8 = _____
 6 x 9 = _____
 6 x 10 = _____



Draw a checkmark

The multiplication is correct.

The multiplication is incorrect.

IDENTIFYING NUMBER PATTERNS PATTERN BAKE

Directions: For each sequence below, identify the rule of the pattern. Write the rule and the missing numbers.

- 1 7 14 21 28 35 42

- 2 76 68 60 52 44 36

- 3 48 46 43 39 34 29

- 4 35 45 40 50 48 58

- 5 99 63 45 27

- 6 12 14 32 22

- 7 160 40 20 10

5

4

0



NAME: _____ DATE: _____

IDENTIFYING NUMBER PATTERNS

ADDITION INPUT/OUTPUT

Roger the Robot runs on addition patterns, and he needs your help to crack the code to get all his parts running! Complete the tables below by determining the addition pattern in the blanks.

1

In	Out
52	60
5	73
	91
	106

In	Out
3	24
5	40
7	56
6	48

In	Out
49	22
2	0
52	25
3	16

In	Out
268	429
369	530
?	623
	130

7 0 8

NAME: _____ DATE: _____

IDENTIFYING NUMBER PATTERNS

TEST

Directions: For each sequence, write in the missing number.

1

2

Directions: Complete the input/output charts by finding the number pattern.

1

In	Out
56	
23	

NAME: _____

IDENTIFYING NUMBER PATTERNS

STORY PROBLEMS

Directions: Use number patterns to solve the following story problems. Explain how you arrived at each of your answers.

INPUT/OUTPUT STORY PROBLEMS

Directions: Use number patterns to solve the following story problems. Explain how you arrived at each of your answers.

5 Josef and Miriam are selling lemonade. They sell more lemonade as each hour passes. How many lemonades do they sell after 4 hours of selling?



Hour	Lemonades Sold
1	4
2	8
3	12
4	
5	20

Explanation:

4 5 6

$6 \times 9 =$ _____

$6 \times 10 =$ _____



Draw a checkmark inside the magnifying glasses with true observations.

The multiples of 6 are all odd

The multiples of 6 are all even

10

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

Every multiple of 6 is also a multiple of 3

Multiples of 6 have a pattern of 6, 2, 8, 4, 0 in the ones place



IDENTIFYING NUMBER PATTERNS

3rd grade

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NAME: _____ DATE: _____

IDENTIFYING NUMBER PATTERNS

MULTIPLICATION DETECTIVE

x 2

Directions: Complete the multiplication facts below. Then, color in all the multiples of 2 on the hundreds chart. Use your detective skills to make observations about patterns you observe.

$2 \times 1 =$ _____

$2 \times 2 =$ _____

$2 \times 3 =$ _____

$2 \times 4 =$ _____

$2 \times 5 =$ _____

$2 \times 6 =$ _____

$2 \times 7 =$ _____

$2 \times 8 =$ _____

$2 \times 9 =$ _____

$2 \times 10 =$ _____

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



Draw a checkmark inside the magnifying glasses with true observations.



The multiples of 2 are all even



2 multiplied by an odd number produces an odd product



All multiples of 2 have a 0, 2, 4, 6, or 8 in the ones place



All tens digits in multiples of 2 are even

NAME: _____ DATE: _____

IDENTIFYING NUMBER PATTERNS

ADDITION INPUT/OUTPUT

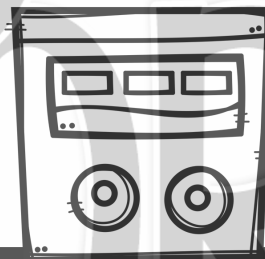
Directions: Roger the Robot runs on addition patterns, and he needs your help to crack the code and keep all his parts running! Complete the tables below by determining the addition rule and filling in the blanks.



In	Out
52	60
65	
83	
98	



In	Out
88	
121	146
146	
179	



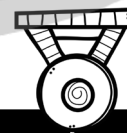
In	Out
15	
37	
59	
145	157



In	Out
268	
369	
462	623
529	



In	Out
157	
193	234
214	
	266



In	Out
68	270
92	
	315
135	

NAME: _____ DATE: _____

IDENTIFYING NUMBER PATTERNS







PATTERN BAKERY

Directions: For each sequence below, identify the rule the pattern follows. Use the pattern rule to write in the missing numbers.

1       Rule: _____

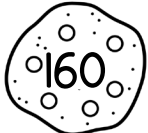
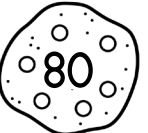
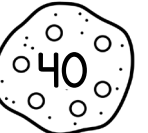

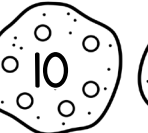
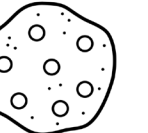
2       Rule: _____

3       Rule: _____

4       Rule: _____

5       Rule: _____

6       Rule: _____

7       Rule: _____

NAME: _____ DATE: _____

IDENTIFYING NUMBER PATTERNS PATTERN TRACKING



Directions: Zeke is tracking animals in the woods. Help him identify the following animal tracks by determining the rule the pattern follows. Fill in the blank with the missing number, then find the missing number in the key at the bottom to identify what animal the tracks belong to.

1		RULE: ANIMAL:
2		RULE: ANIMAL:
3		RULE: ANIMAL:
4		RULE: ANIMAL:

KEY

39	raccoon	18	bear	20	fox	115	rabbit
24	squirrel	32	moose	34	elk	95	badger

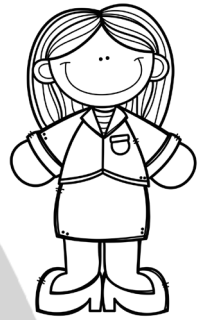
NAME: _____ DATE: _____

IDENTIFYING NUMBER PATTERNS

STORY PROBLEMS

Directions: Use number patterns to solve the following story problems. Explain how you arrived at each of your answers.

1 On Monday, Ms. Washington gave the students in her class 10 minutes of homework. On Tuesday, she assigned 15 minutes of homework, and on Wednesday, she assigned 20 minutes of homework. If Ms. Washington continues this pattern, how many minutes of homework will the students receive on Thursday?



2 Ryan has not been studying his spelling words lately. Two weeks ago, Ryan received a 92 on his spelling quiz. Last week, he earned an 85. This week, he earned a 78. If Ryan continues this pattern, what score will Ryan earn next week?



3 Luisa reads a book every day. On Friday, she read 4 pages. On Saturday, she read 8 pages, and on Sunday, she read 16 pages. If she continues this pattern, how many pages will she read on Monday?



NAME: _____ DATE: _____

IDENTIFYING NUMBER PATTERNS TEST REVIEW

Directions: Complete the input/output charts by finding the rule and filling in the missing numbers.

1

In	Out
24	39
36	51
48	
60	
72	87
Rule:	

2

In	Out
56	
182	150
94	62
256	224
312	
Rule:	

3

In	Out
6	36
4	
9	
10	60
7	
Rule:	

4

In	Out
81	
27	3
54	6
45	
9	
Rule:	

5

In	Out
145	40
724	
482	
835	730
257	
Rule:	

6

In	Out
2	
5	25
8	40
1	
3	
Rule:	

Directions: For each number sequence, determine which rule the pattern follows. Then, fill in any missing numbers.

7

4	17	30		56	
---	----	----	--	----	--

Rule

8

152	128	104	80		
-----	-----	-----	----	--	--

Rule

9

1	2	4	8		
---	---	---	---	--	--

Rule

10

7	70	700	7,000		
---	----	-----	-------	--	--

Rule

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