Hello Families of Sixth Graders,

My name is Dorothy Schutter, and I will be teaching sixth grade Math this year. This year will be my twenty-fourth year at Saratoga Central Catholic and forty-ninth year in the classroom. During all these many years I have taught mathematics on both the middle school and high school levels.

Students in sixth grade math will be able to use a calculator but not until the second semester. Entering sixth grade with a mastery of multiplication facts will help them move more easily through various levels of understanding and mastery of sixth grade math concepts. Freeing up working memory allows students to develop their reasoning skills which becomes more and more important as they move through the grades.

I have put together packets focusing on the 6-7-8-9 multiplication facts. The activities in these packets are repetitive and most are meant to encourage students to count by 6s,7s,8s, 9s to complete meaningful tasks. These activities are meant to be a help for your sixth grader. They are optional.

The following are four strategies that have been shown to help students with memorization of multiplication facts:

- (1). Intensive repetitive focus on just one set of multiples is exactly what is needed for students who struggle with their multiplication facts.
- (2). Engaging the fine motor system to handwrite has been shown to have positive effects on learning and memory.
- (3). Understanding the correlation between adding repeatedly by the same number and multiplying by that number is essential.
- (4). Chanting the multiplication facts also aids in memory.

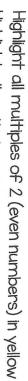
Later in the summer I will be sending the answer keys for these worksheets.

If you have any questions, you may contact me at: dschutter@saratogacatholic.org

I am looking forward to meeting you in the fall.

Ms. Schutter

# Discovering Patterns in Multiples of 6



Circle all multiples of 6 Highlight all multiples of 3 in blue

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What do you notice about multiples of 6? (come up with at least 3 ideas)

#### Which multiple does not belong? Multiples of 6:

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#### Which multiple does not belong? Extend Your Thinking Multiples of 6:

<u>Circle</u> the multiple that does not belong. Next, <u>record</u> the 6's multiplication fact for each of the other numbers in the chart. Then, using your "number sense," explain your reasoning for the number that does not belong in as many ways as you can

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42	30	60
39	84	45
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#### Which multiple does not belong? Extend Your Thinking Multiples of 6:

Circle the multiple that does not belong. Next, record the 6's multiplication fact for each of the other numbers in the chart. Then, using your "number sense," explain your reasoning for the number that does not belong in as many ways as you can.

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#### Which multiple does not belong? Extend Your Thinking Multiples of 6:

<u>Circle</u> the multiple that does not belong. Next, <u>record</u> the 6's multiplication fact for each of the other numbers in the chart. Then, using your "number sense," explain your reasoning for the number that does not belong in as many ways as you can

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#### Which multiple does not belong? Extend Your Thinking Multiples of 6:

Circle the multiple that does not belong. Next, record the 6's multiplication fact for each of the other numbers in the chart. Then, using your "number sense," explain your reasoning for the number that does not belong in as many ways as you can

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### Multiples of 6: Which multiple does not belong? Extend Your Thinking

<u>Circle</u> the multiple that does not belong. Next, <u>record</u> the 6's multiplication fact for each of the other numbers in the chart. Then, using your "number sense," explain your reasoning for the number that does not belong in as many ways as you can.

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My Number Sense Explanation:

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My Number Sense Explanation:

## Multiples of 6: Which multiple does not belong? Extend Your Thinking

Circle the multiple that does not belong. Next, <u>record</u> the 6's multiplication fact for each of the other numbers in the chart. Then, using your "number sense," explain your reasoning for the number that does not belong in as many ways as you can.

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66	24	72
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My Number Sense Explanation:

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My Number Sense Explanation:

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# Find the Missing Multiple of 6

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8	12	45	30
	66	84	0
36	24	18	24

# Find the Missing Multiple of 6

Figure out the missing multiple and record it in the empty box. Each box should contain the products of your 6 times tables from 1-12.

# Find the Missing Multiple of 6:

These "Missing Multiple" boxes use larger multiples of 6. Figure out the multiple that is missing in the sequence. You may NOT use the multiple that comes before the LOWEST multiple in the chart. (Example: If 24 is the lowest number, your answer will not be 18).

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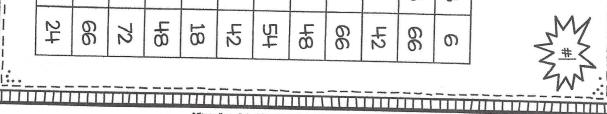
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#### Multiples of 6 Search

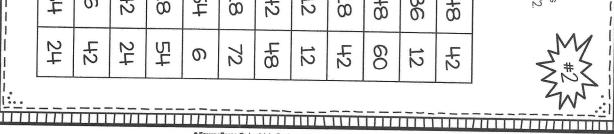
Begin with 6 and follow multiples of 6 (by connecting numbers to the left, right, above, below, or diagonally) until you reach 72.

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### Multiples of 6 Search

to the left, right, above, below, or diagonally) until you reach 72. Begin with 6 and follow multiples of 6 (by connecting numbers



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# Discovering Patterns in Multiples of 7

### Highlight all multiples of 7

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	111	104	4	48	74	120	45	丰	34	24	计	F
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What do you notice about multiples of 7? (come up with at least 3 ideas)

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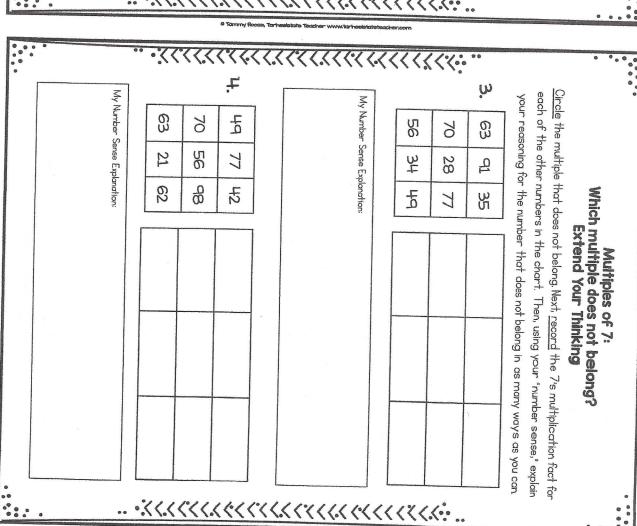
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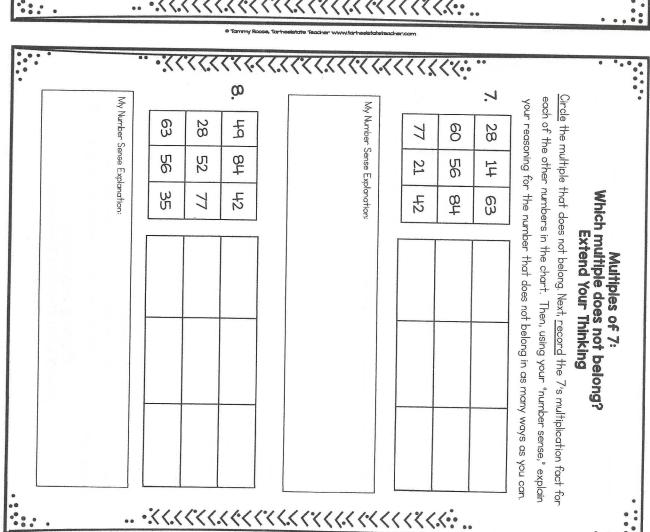
#### Ļ ე ე 占 $\Omega$ 华 占 Multiples of 7: Which multiple does not belong? 古 占 Ġ ណ 꿍 <u>0</u> H 占 F 10. 华 <u>ე</u> S 占 华 S

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#### •<u>;</u>{{\*{\;}} N My Number Sense Explanation My Number Sense Explanation each of the other numbers in the chart. Then, using your "number sense," explain <u>Circle</u> the multiple that does not belong. Next, <u>record</u> the 7's multiplication fact for your reasoning for the number that does not belong in as many ways as you can 21 七 77 中 3 6 48 占 28 26 63 9 늄 二 70 400 28 감 Which multiple does not belong? Extend Your Thinking Multiples of 7: × 10



#### •;<<<<;<<<<;<<<;; Ġ My Number Sense Explanation <u>Circle</u> the multiple that does not belong. Next, $\underline{record}$ the 7's multiplication fact for each of the other numbers in the chart. Then, using your "number sense," explain My Number Sense Explanation your reasoning for the number that does not belong in as many ways as you car 七2 63 3 S S 28 77 남 32 28 70 7 29 <u>0</u> 70 48 Which multiple does not belong? Extend Your Thinking 21 占 21 Multiples of 7: <del>.. •</del>:<<<<<<<<<<<<<<<<<<<<<<<:..



#### Multiples of 7: Which multiple does not belong? Extend Your Thinking

<u>Circle</u> the multiple that does not belong. Next, <u>record</u> the 7's multiplication fact for each of the other numbers in the chart. Then, using your "number sense," explain your reasoning for the number that does not belong in as many ways as you can

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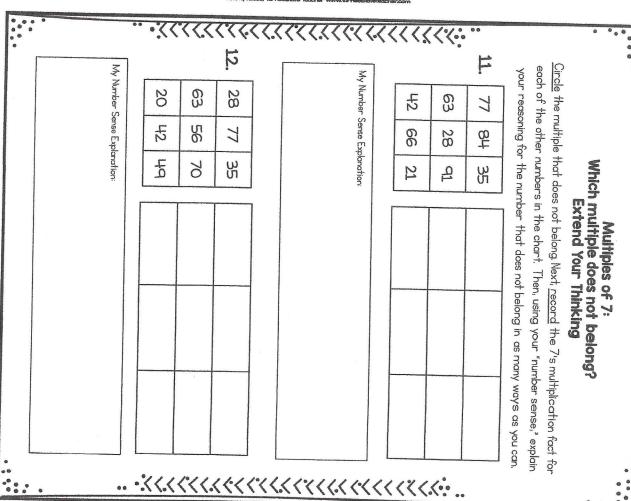
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# Find the Missing Multiple of 7

Figure out the missing multiple and record it in the empty box. Each box should contain the products of your 7 times tables from 1-12.

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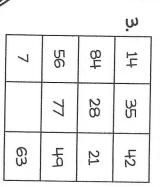
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# Find the Missing Multiple of 7

Figure out the missing multiple and record it in the empty box. Each box should contain the products of your 7 times tables from I-12.

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# Find the Missing Multiple of 7: Larger Multiples

LOWEST multiple in the chart. (Example: If 28 is the lowest number, your answer will not be 21). multiple that is missing in the sequence. You may NOT use the multiple that comes befare the These "Missing Multiple" boxes use larger multiples of 7. Figure out the

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### Multiples of 7 Search

Begin with 7 and follow multiples of 7 (by connecting numbers to the left, right, above, below, or diagonally) until you reach 84.

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21	48	7	42	56	42	计	28	ド	70	t t	42
63	28	21	늄	上	36	35	21	17	7	26	56
28	77	48	56	21	<del>1</del>	63	56	77	나	77	7

### Multiples of 7 Search

Begin with 7 and follow multiples of 7 (by connecting numbers to the left, right, above, below, or diagonally) until you reach 84.



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48	77	늄	26	늄	42	14	28	计	70	21	42
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28	49	70	8	20	늄	42	56	21	28	77	35
48	77	70	20	늄	35	63	11	63	计	20	70
21	48	14	77	28	7	42	7	28	35	7	63
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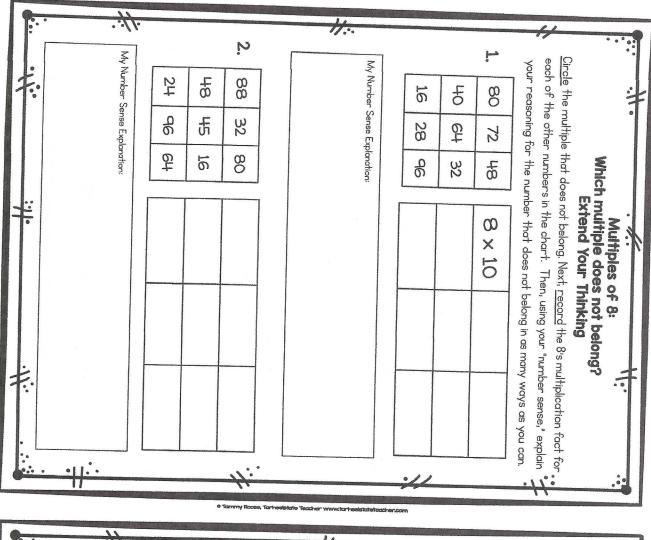
# Discovering Patterns in Multiples of 8

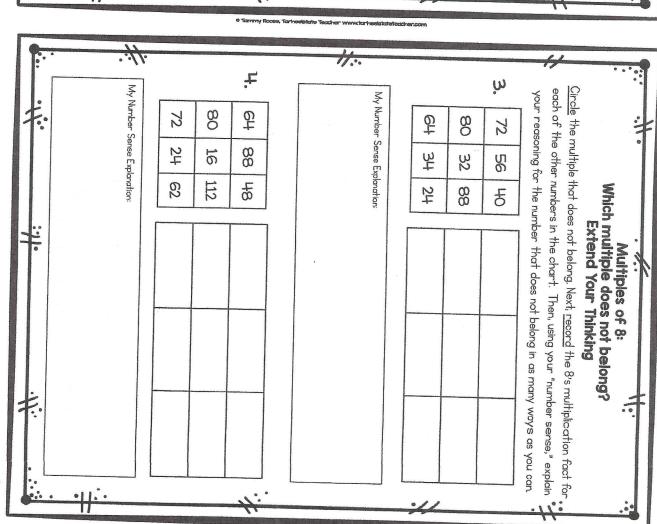
### Highlight all multiples of 8

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	118	108	98	88	78	68	58	84	38	28	18	σ
	119	109	99	89	79	69	59	PH	39	29	19	٩
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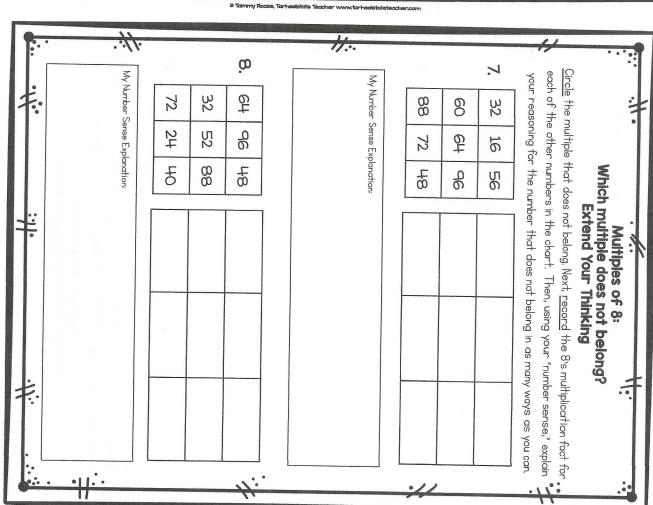
What do you notice about multiples of 8? (come up with at least 3 ideas)

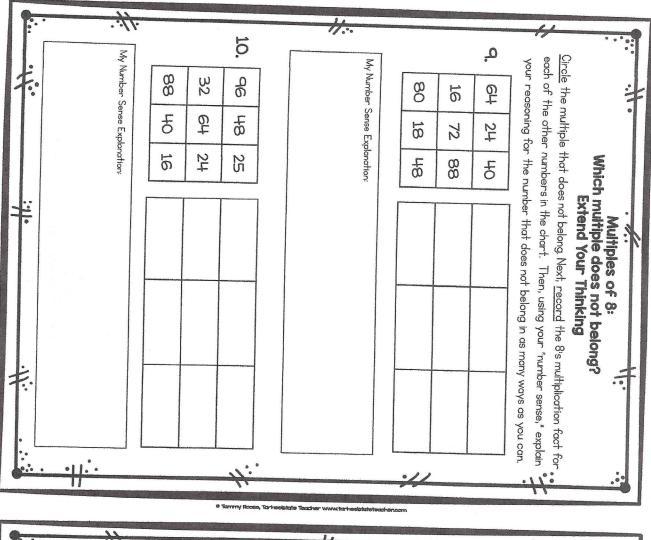
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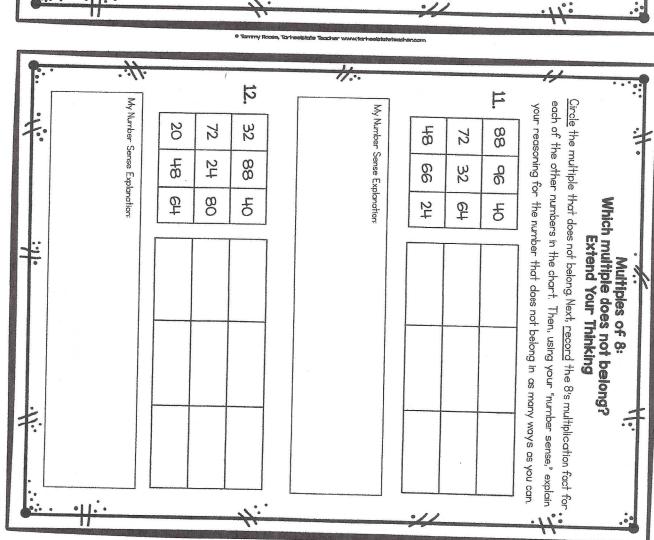


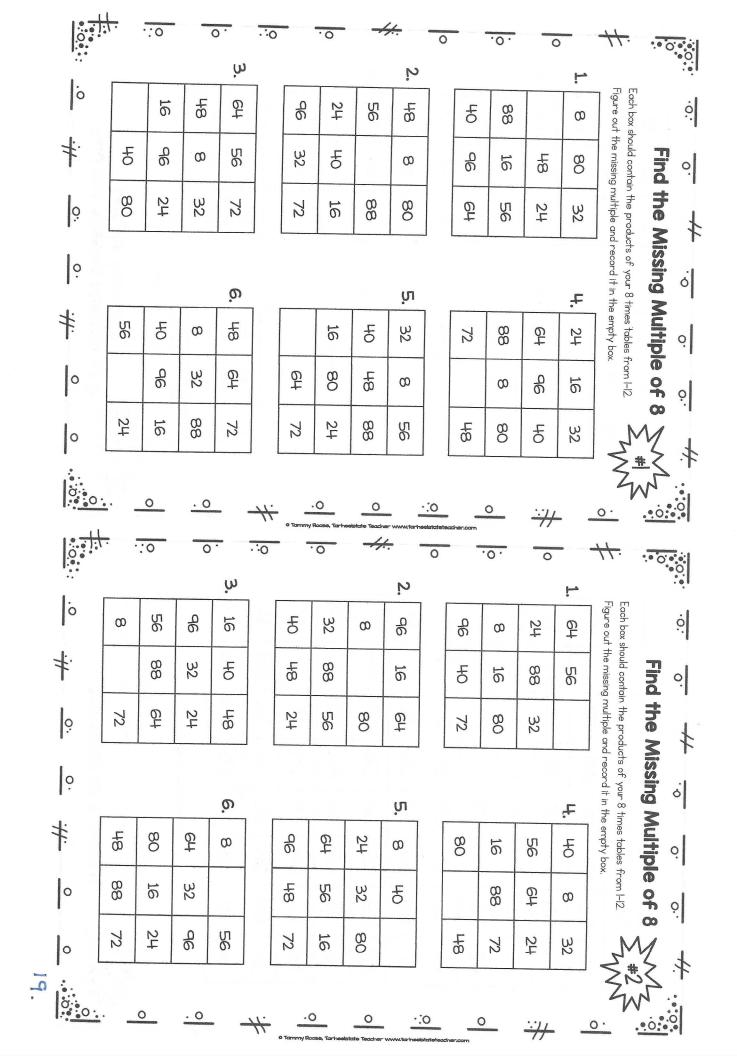


#### 11:. ហ My Number Sense Explanation Circle the multiple that does not belong. Next, record the 8's multiplication fact for each of the other numbers in the chart. Then, using your "number sense," explain your reasoning for the number that does not belong in as many ways as you can. My Number Sense Explanation: 유 Which multiple does not belong? Extend Your Thinking Multiples of 8:









These "Missing Mulmultiple that is miss LOWEST multiple in ហ្វ 0. re the of be 24).

32	24	克	Multiple" by missing in the ch
	84	र्ट	cary  xes use lar;  he sequence  art. (Examp
		÷	Larger Multiples  Chamber To the sequence. You may NOT use the multiple that comes before the chart. (Example: If 32 is the lowest number, your answer will not
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Multiples of Begin with 8 and follow multiples of 8 (by to the left, right, above, below, or diagonal	Multiples of 8  Begin with 8 and follow multiples of 8 (by conto the left, right, above, below, or diagonally) of the left.	Multiples of 8 Search  Begin with 8 and follow multiples of 8 (by connecting numbers to the left, right, above, below, or diagonally) until you reach 96.
Multiples of 8 and follow multiples of 8 (by right, above, below, or diagonal	Multiples of 8 8 and follow multiples of 8 (by conright, above, below, or diagonally) or	Multiples of 8 Search 8 and follow multiples of 8 (by connecting numb right, above, below, or diagonally) until you reac
ultiples of v multiples of 8 (by below, or diagonal)	ultiples of 8  v multiples of 8 (by con below, or diagonally)	ultiples of 8 Search  v multiples of 8 (by connecting numb below, or diagonally) until you reac
8 (by	8 (by con	of 8 Search 8 (by connecting numb agonally) until you reac
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# Multiples of 8 Search Begin with 8 and follow multiples of 8 (by connecting numbers to the left, right, above, below, or diagonally) until you reach 96

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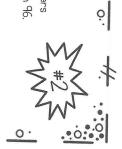
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to the left, right, above, below, or diagonally) until you reach 96.

This Multiple Search has 3 solutions. Find them all!



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-	16	72	2	ठ	32	8	동	32	동	80	16	98	Name and Address of the Owner, where the Owner, which is the Owner, which is the Owner, where the Owner, which is the Owner, which
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# Discovering Patterns in Multiples of q

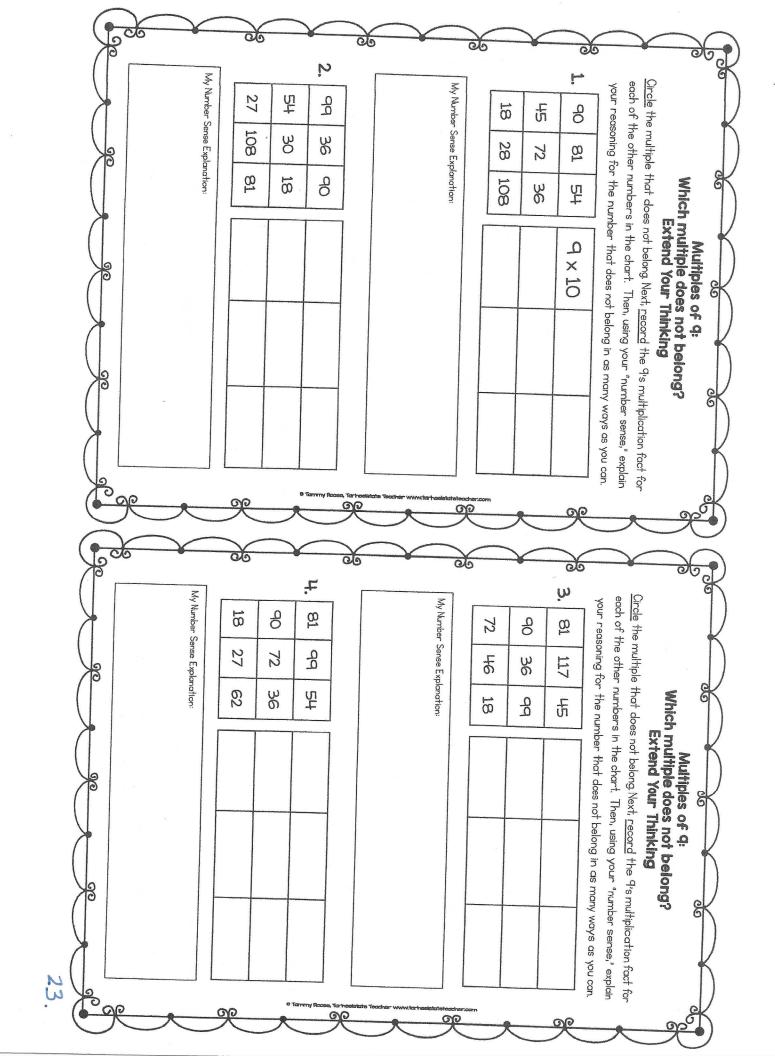
### Highlight all multiples of q

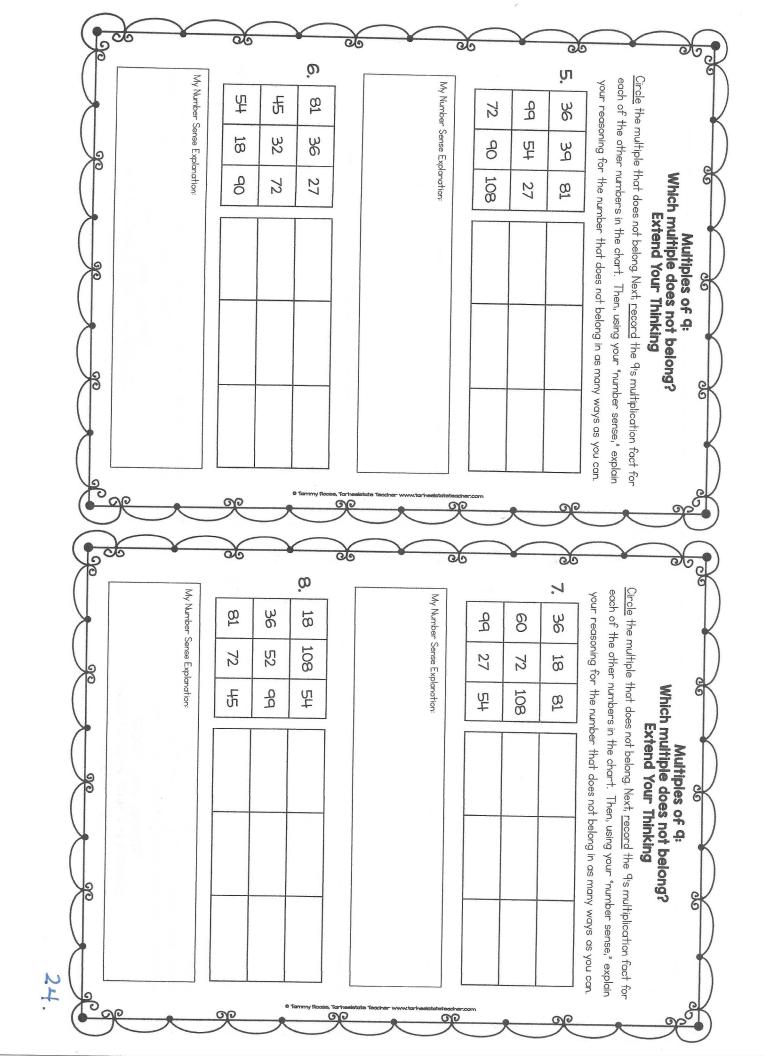
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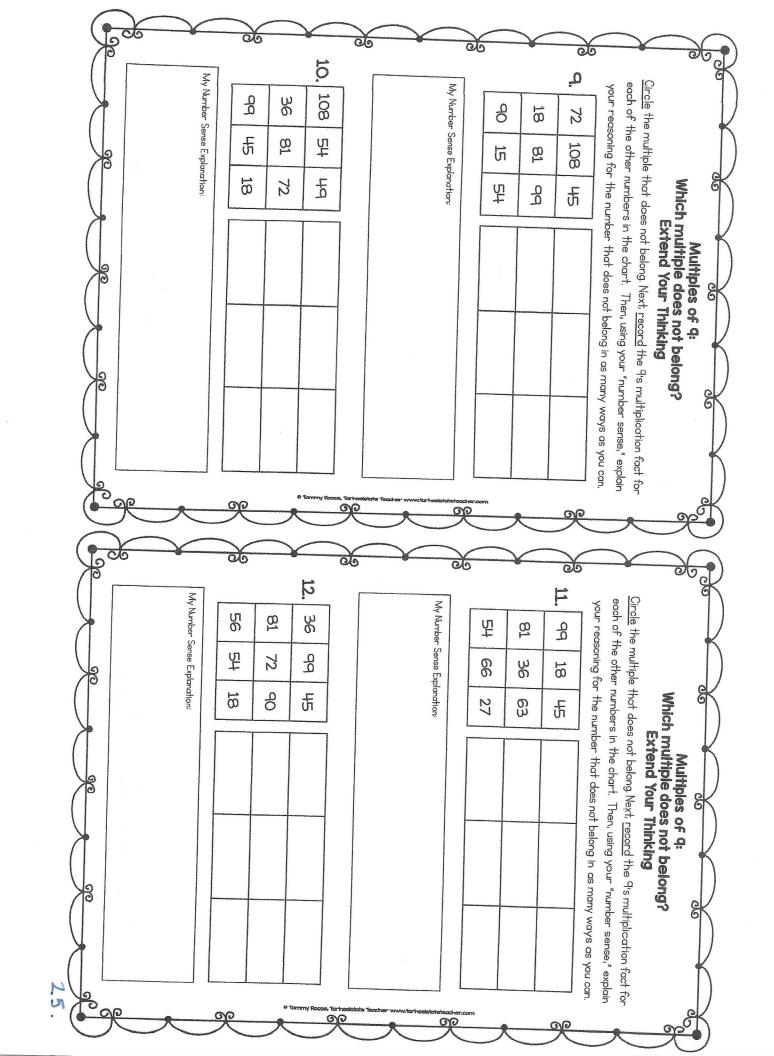
What do you notice about multiples of 9? (come up with at least 3 ideas)

က် ဝဓု ÷ b -古 占 유 Which multiple does not belong? 친 듔 ò ហ Multiples of 9: 石 듄 Ë 10. م <u>0</u> 石 <del>9</del> 石 石 占 H 石

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# Find the Missing Multiple of q

Each box should contain the products of your 9 times tables from I-I Figure out the missing multiple and record it in the empty box.

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81	72	27	36

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Find the Missing Multiple of q

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The Contract of the Contract o	99	72	۵	
Market Commence of the Commenc	63	27	36	
				V 4

#### Find the Missing Multiple of q: Larger Multiples

LOWEST multiple in the chart. (Example: If 36 is the lowest number, your answer will not be 27). multiple that is missing in the sequence. You may NOT use the multiple that comes before the These "Missing Multiple" boxes use larger multiples of 9. Figure out the

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of the state of th	qq	36	27	72
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### Multiples of 9 Search

to the left, right, above, below, or diagonally) until you reach 108. Begin with 9 and follow multiples of 9 (by connecting numbers

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17	2	72	99	g	82	72	18	82	55	٩	18	٩
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0		<u> </u>	5	82	36	र्फ	81	81	卫	82	g	99
4		3	٩	2	27	五	9	72	18	石	108	36
108	-	۵	27	18	۵	36	99	۵	8	63	27	۵
9	10	â	36	45	72	18	108	۵	72	型	五	£
27	7	2	र्फ	18	18	72	18	72	18	27	36	9



### Multiples of 9 Search

Begin with 9 and follow multiples of 9 (by connecting numbers to the left, right, above, below, or diagonally) until you reach 108.



				-							
4	108	18	99	81	27	18	36	108	27	친	٥
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108	99	90	18	108	90	63	108	4	72	石	36
۵	五	82	27	18	qq	72	72	108	82	8	27
27	8	72	27	36	108	90	81	٩	27	18	72
18	<u>1</u>	108	8	Ф	4	18	63	q	P	27	63
27	55	99	27	45	108	18	81	27	000	18	55

