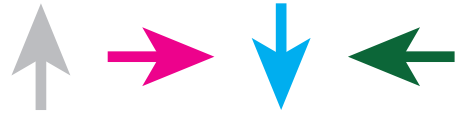


# Patterns in Unit's Place



Multiples of  $50$  in  
Digit Numbers

**A VERY ROUGH DRAFT!!**



Isabelle Hoag M. Ed.  
Director of Education  
UnCommon-Core.com

Hello Teachers,

Thank you for downloading this handout. After decades of teaching, now I am sharing some of the activities I designed for my students and some new ones as well.

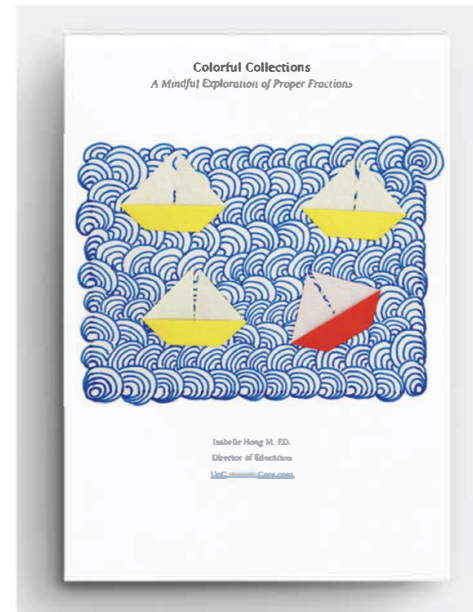
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Thank you again. All the best,

Isabelle

Isabelle Hoag M.Ed.  
Director of Education  
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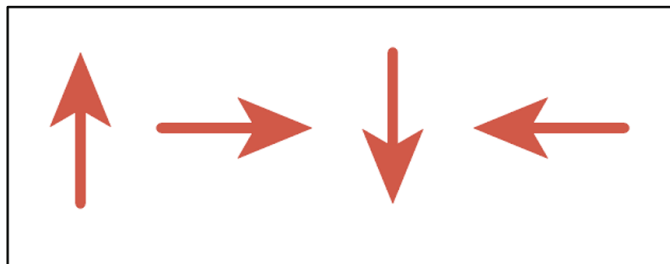
# Patterns in Unit's Place in Multiples of Single Digit Numbers

Do shapes based on number pairs that add to 10 tessellate? Why are shapes based on numbers that sum to 10 so alike?

What kinds of shapes will be made based on multiples of larger numbers? numbers in other bases? Given directions other than up, right, down, left? Sharp corners vs soft corners?

What kinds of art can be created? What kinds of symmetry are expressed here? Calculate area and perimeter - are there any correlations found?

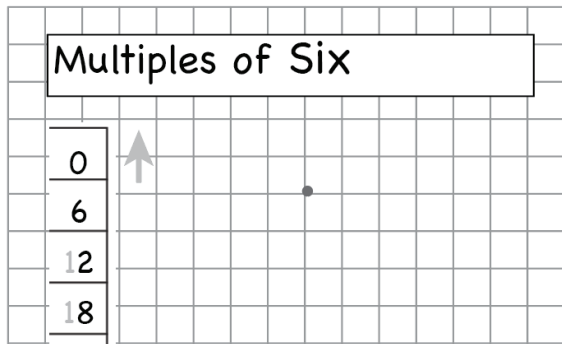
Note: These patterns all start with zero going 'up'. Even though there is not a zero at the beginning of the lists of multiples, I used it as a starting point.



## Instructions

List multiples of a single digit number as shown. Highlight digits in the unit's place.  
Use those digits in order to make an Up, Right, Down, Left pattern on the grid in pencil.

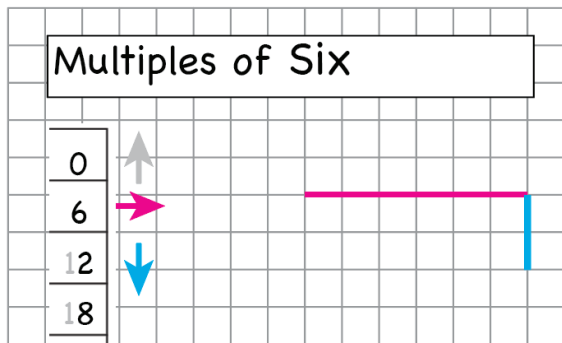
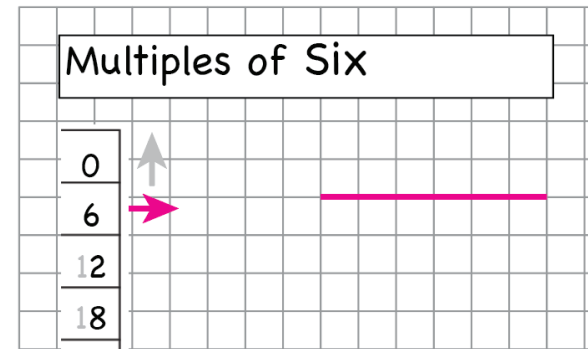
If the pattern doesn't meet itself, recheck the distances.  
Use markers to trace the pattern and add artistic details.



The first multiple of any number is zero. Even if it isn't listed use zero to start with. Zero just makes a point on the grid.



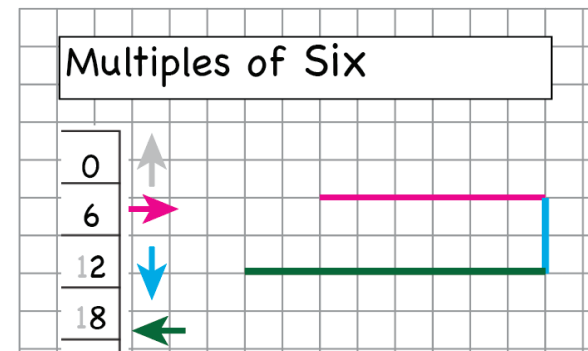
The second number in the example is six. From the starting point, draw a line that is six spaces to the right of where you started.



There is a two in the unit's place of 12. Continue the line down two spaces.



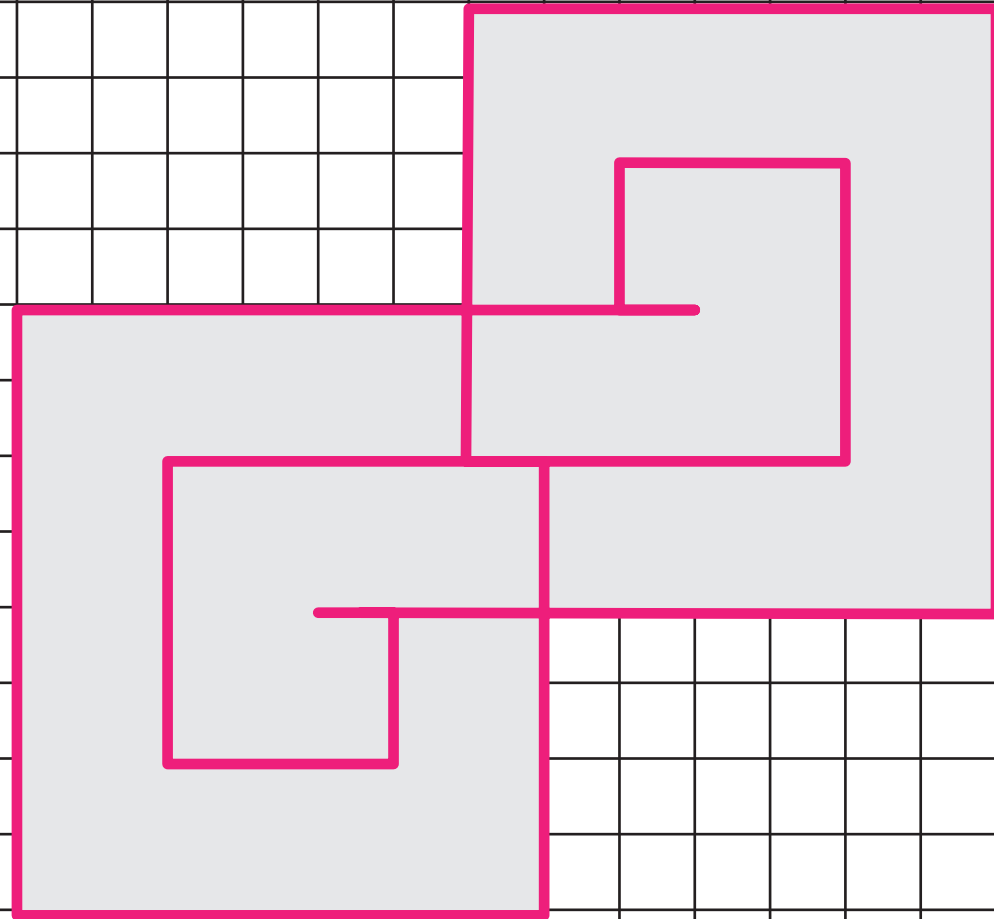
The unit's digit in 18 is eight. Draw the line from where you ended in the last step eight spaces to the left.



# Multiples of One

Answer Key

1  
2  
3  
4  
5  
6  
7  
8  
9  
10



# Multiples of Two

Answer Key

2

4

6

8

10

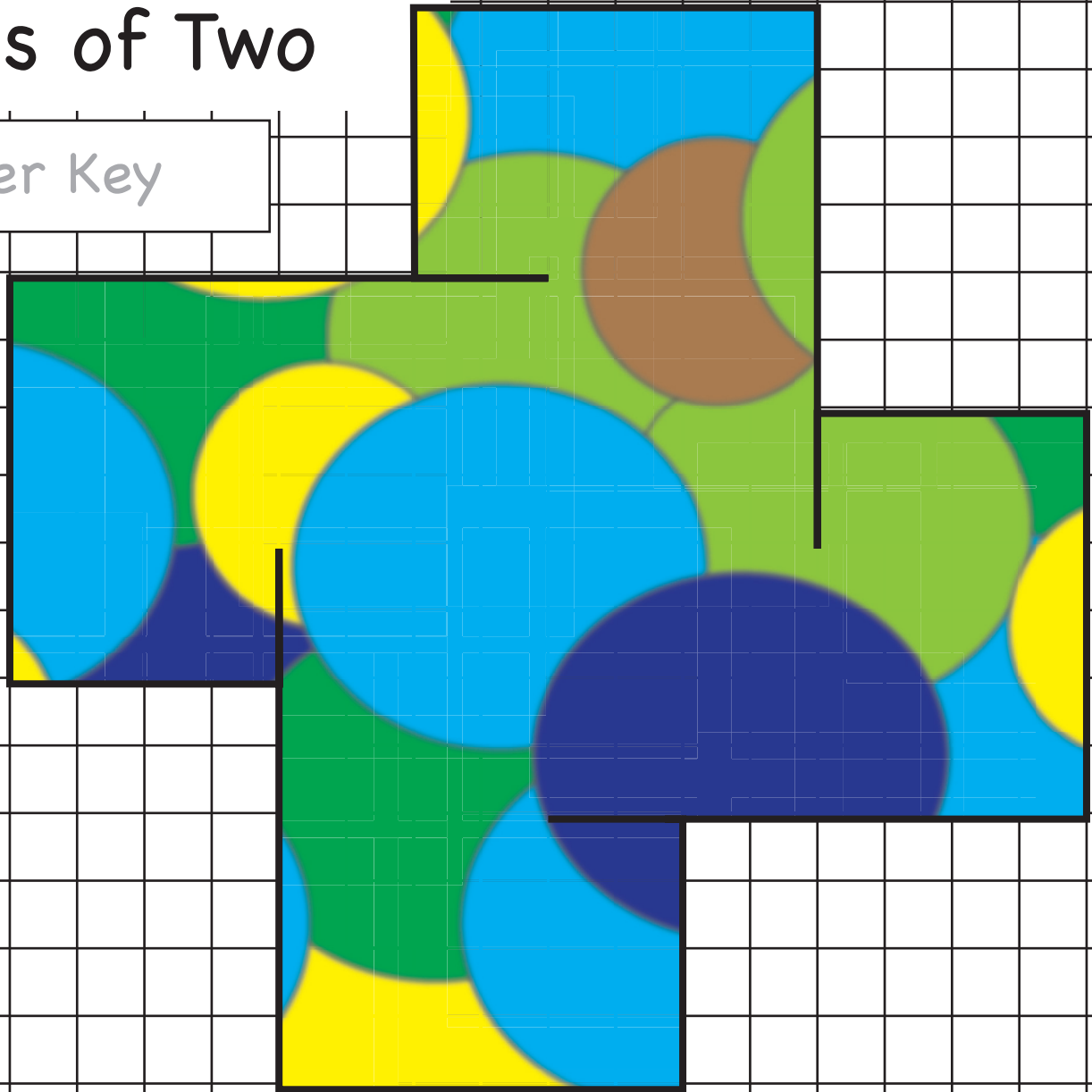
12

14

16

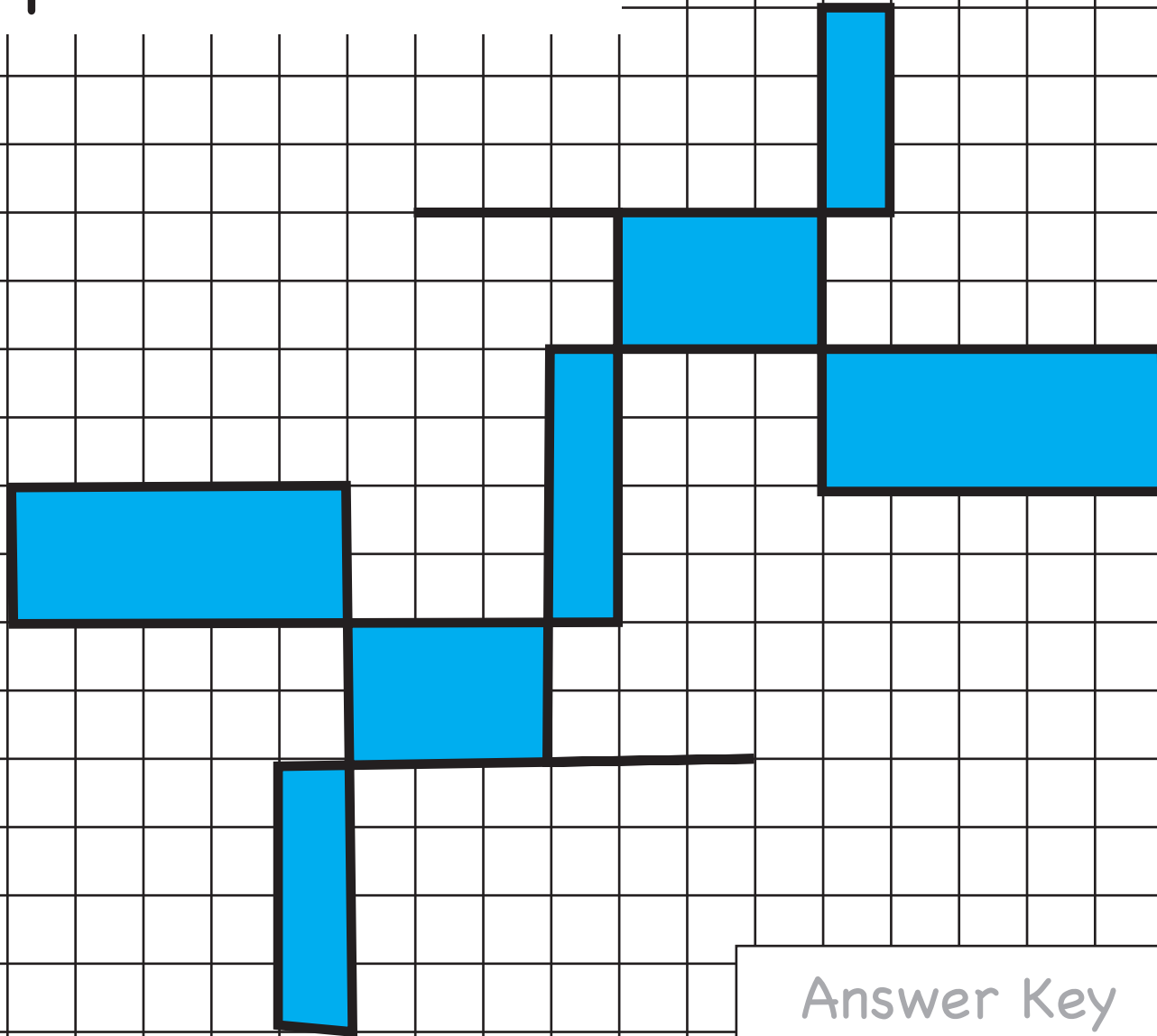
18

20



# Multiples of Three

- 3
- 6
- 9
- 12
- 15
- 18
- 21
- 24
- 27
- 30



Answer Key

# Multiples of Four

Answer Key

4

8

12

16

20

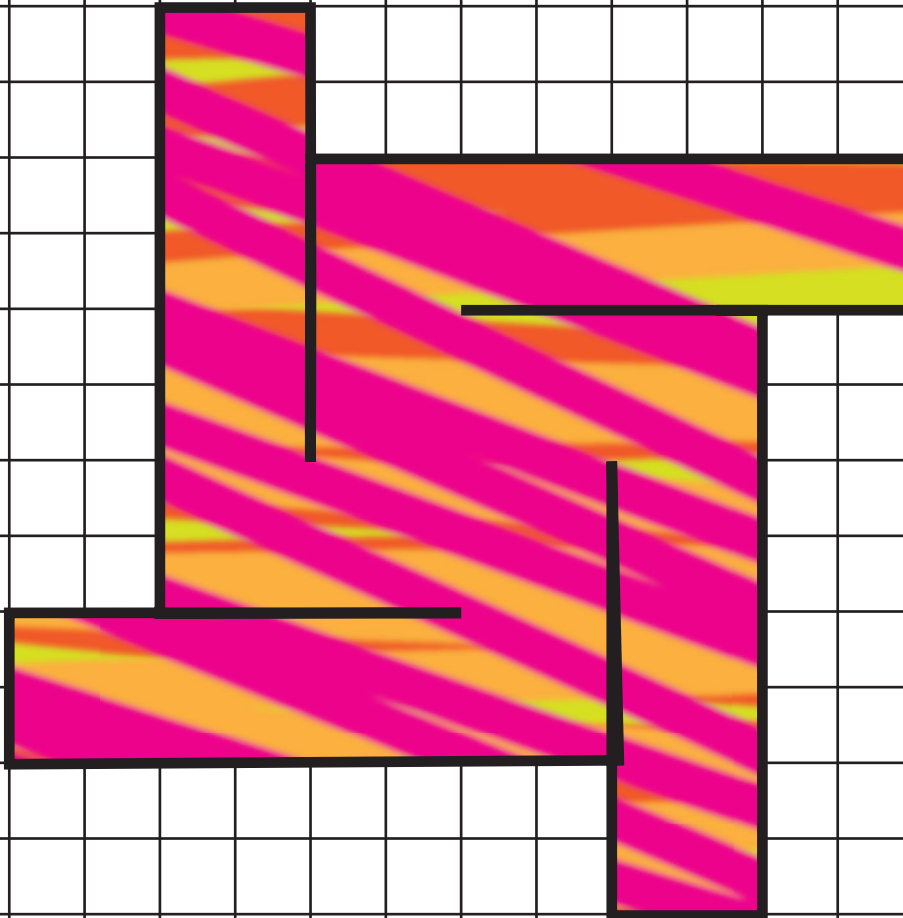
24

28

32

36

40





# Multiples of Five

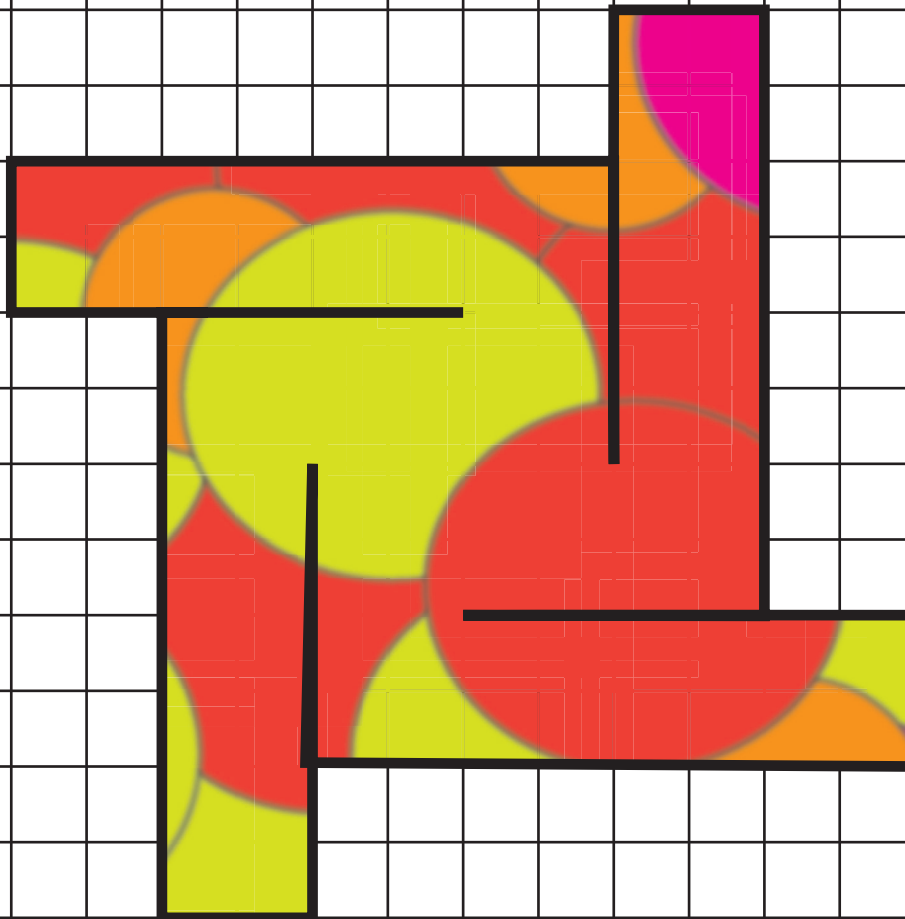
Answer Key



# Multiples of Six

Answer Key

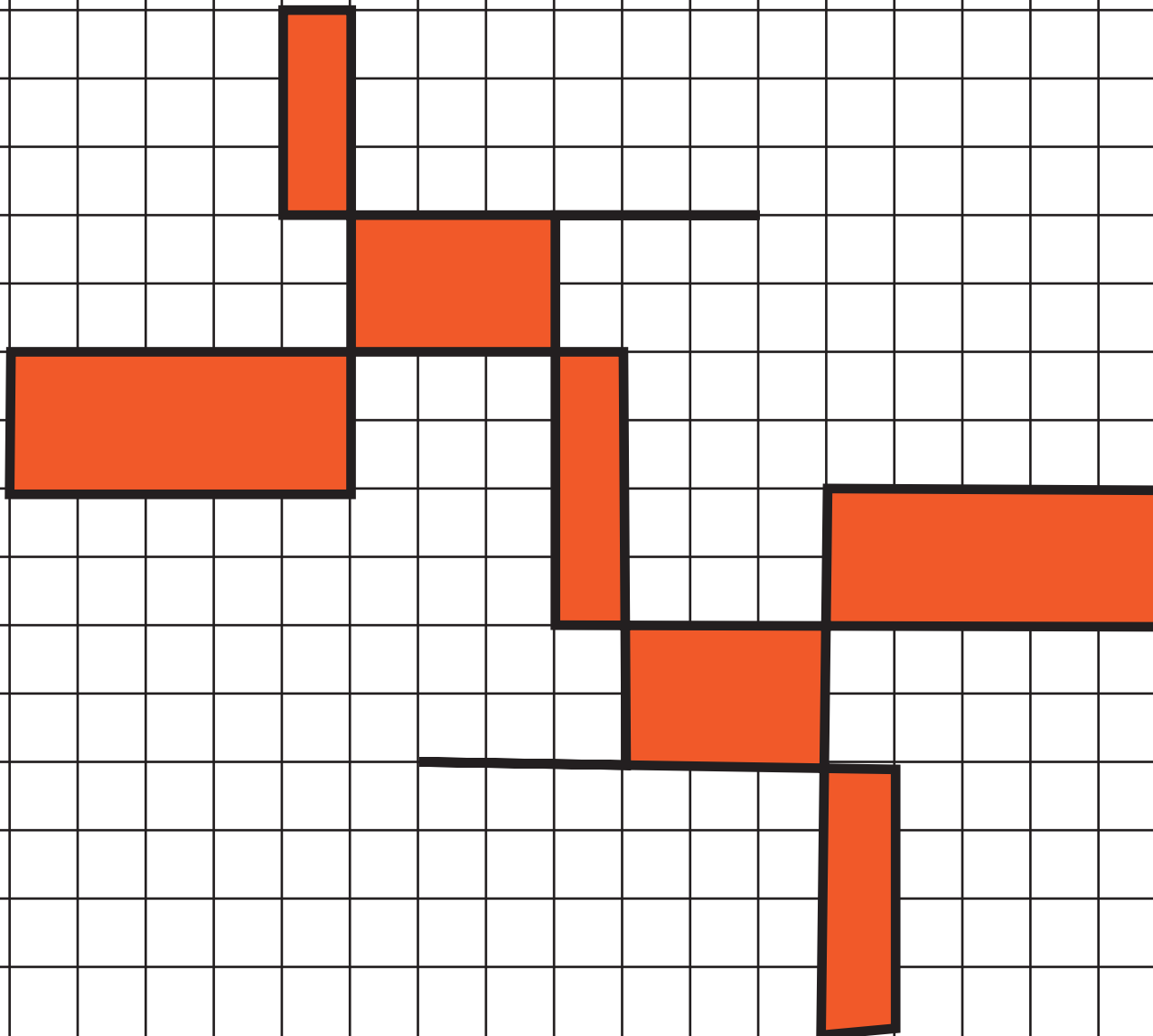
6
12
18
24
30
36
42
48
54
60



# Multiples of Seven

Answer Key

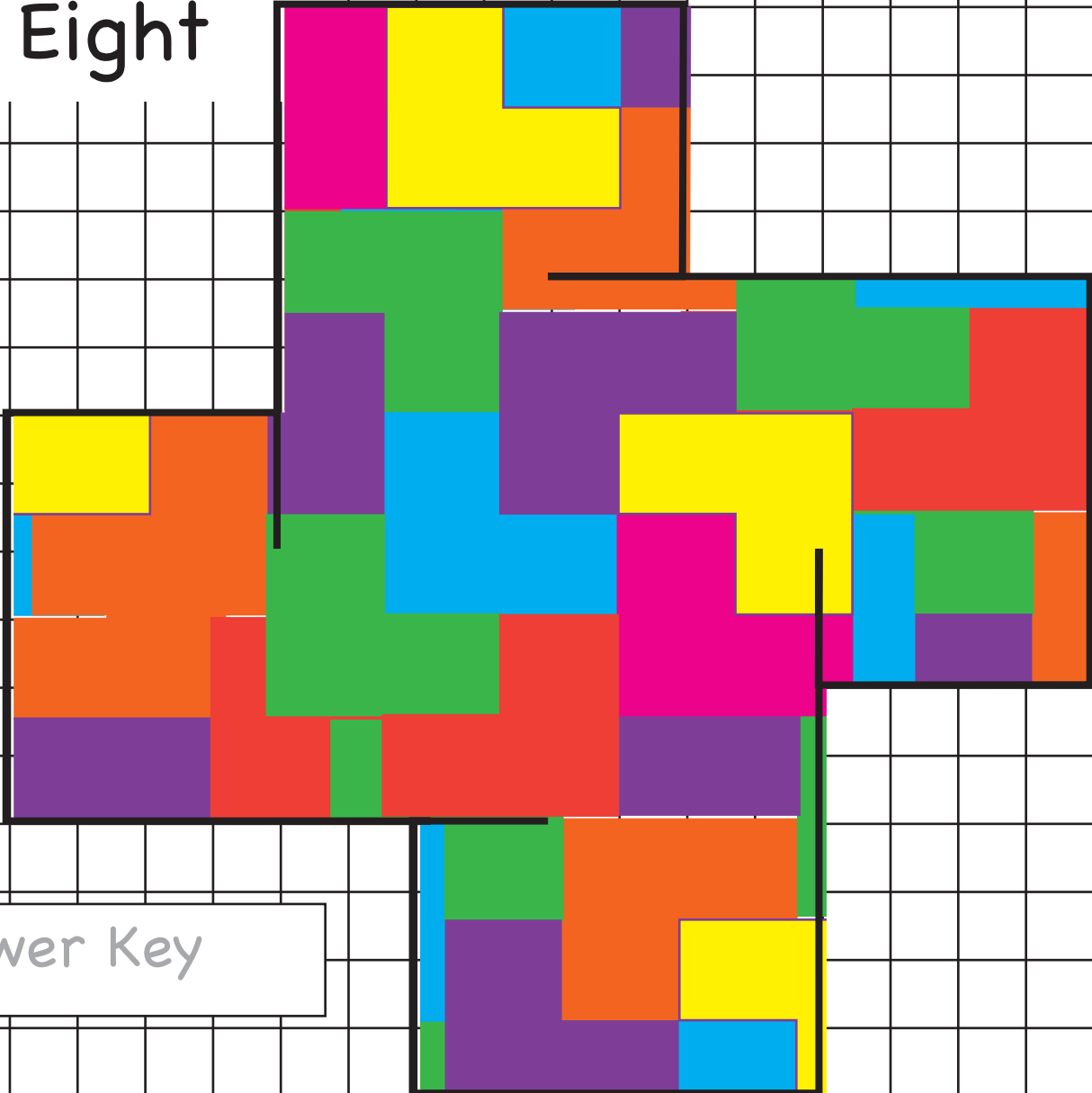
7
14
21
28
35
42
49
56
63
70



# Multiples of Eight



Answer Key



# Multiples of Nine

Answer Key

9

18

27

36

45

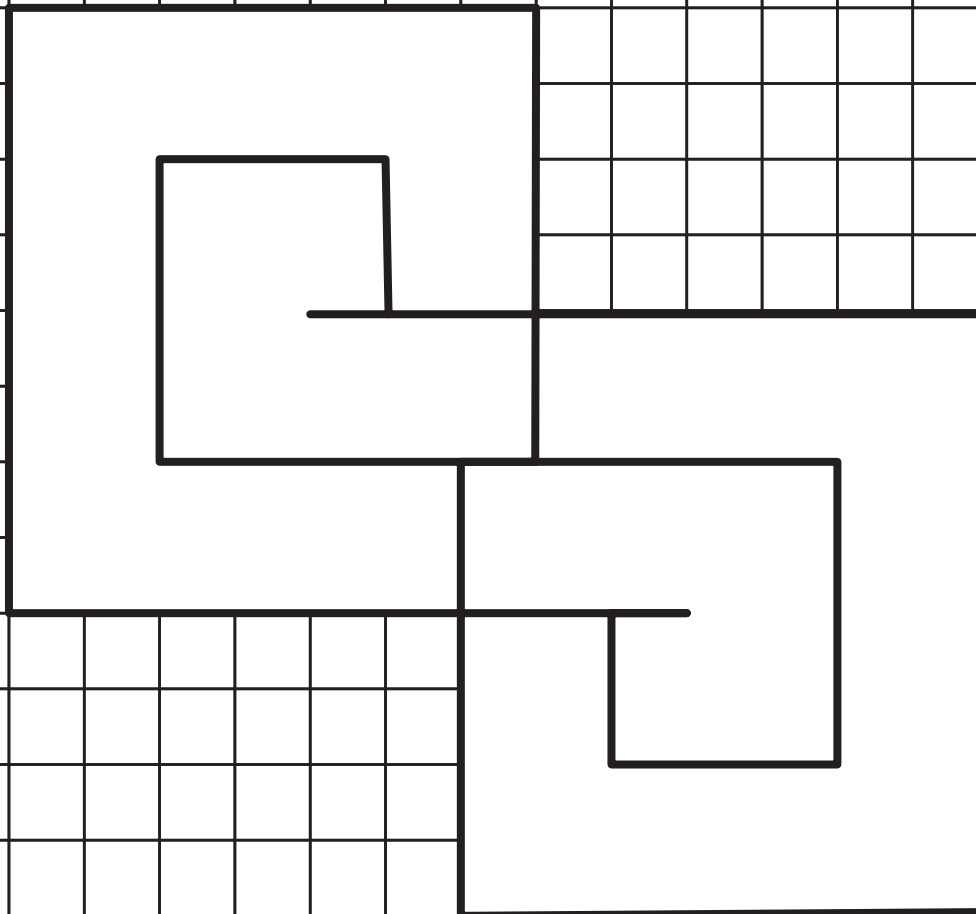
54

63

81

90

99



Multiples of

name

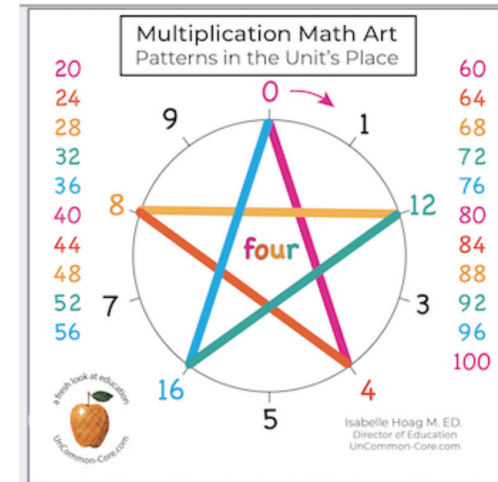
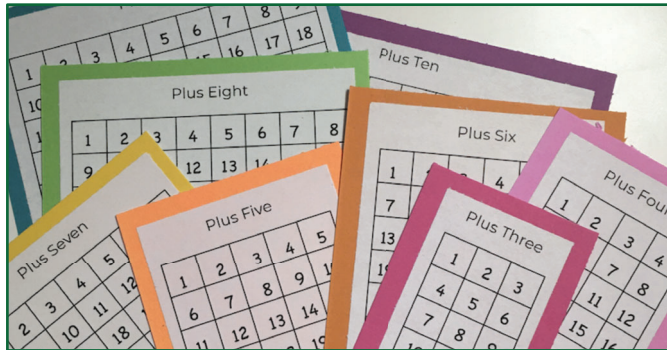
0

Multiples of

name

0

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## Choral Counting Slide Shows

- Multiples of **Three** from zero to 120 and back
- Multiples of **Four** from zero to 120 and back
- Multiples of **Five** from zero to 120 and back
- Multiples of **Six** from zero to 120 and back
- Multiples of **Seven** from zero to 140 and back
- Multiples of **Eight** from zero to 120 and back
- Multiples of **Nine** from zero to 180 and back





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