

Welcome to the Feb 2023 Clyde Hill Math Challenge! (Submit by February 24, 2023!)

Welcome to the Clyde Hill Math Challenge! We are so excited to bring back part of our academic Challenges! We believe ***math is for everyone!*** No one is born "bad" at math - we all have different learning styles and obstacles to overcome - but with motivation and practice we can all build a good math foundation that will help us with many life skills. Cooking, art, music, gaming, budgeting, construction, boating, and sports all benefit from mathematical foundations. Just like you do drills in soccer to build your foundational soccer muscles, we encourage math practice to build your math muscles!

Also just like with your favorite sport or music or art - practice and drills can be fun! These Math Challenges are designed to show the many ways puzzles and games use and reinforce math concepts. We love math and want to share our excitement with you! If there are other challenges you want to see in the future - please let us know!

How does the Math Challenge work?

Every month we will post 6 math challenges that focus on different skills. You can do as many or as few as you like. Even if you don't find the solution - that's ok! Our growth mindset lets us try our best and improve in steps. Trying is our first step! Our goal is to encourage participation, learn and have fun! At the end of each month, during the monthly assembly we will announce the class that has the most participants that month. At the end of the year, the grade that participated the most during the school year will have a special prize!

How do I participate?

You have two ways of submitting your first entry ***by February 24, 2023:***

1. You may scan/take a photo of your entry and email it to math-challenge@clydehillpta.org
2. You may drop your entry off at a mailbox in the front office

Your entry must contain:

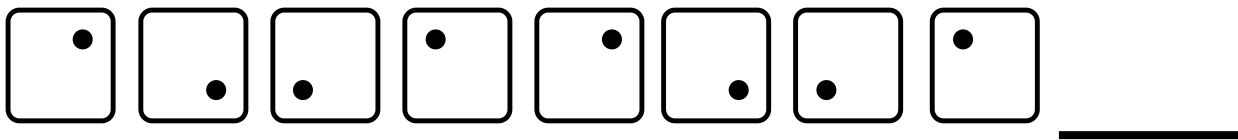
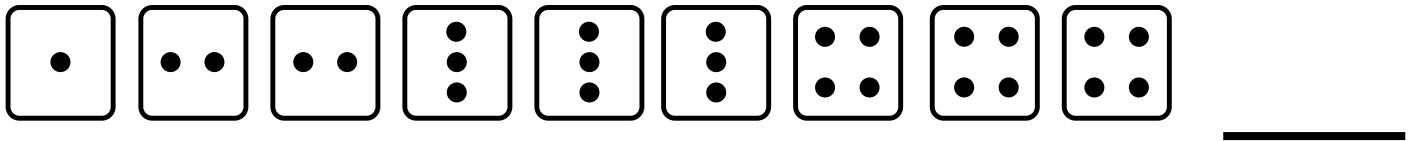
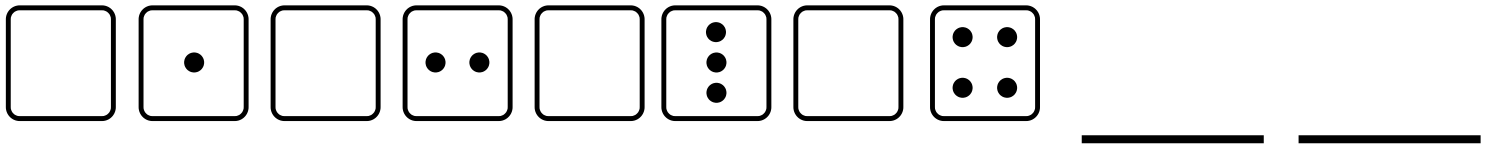
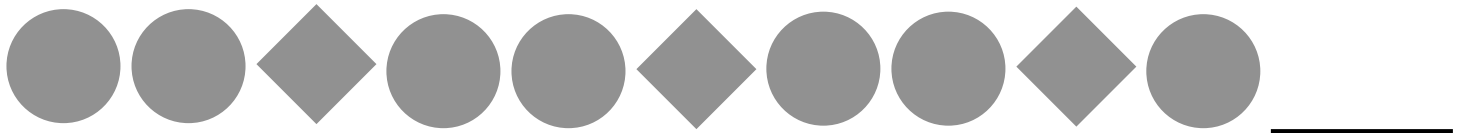
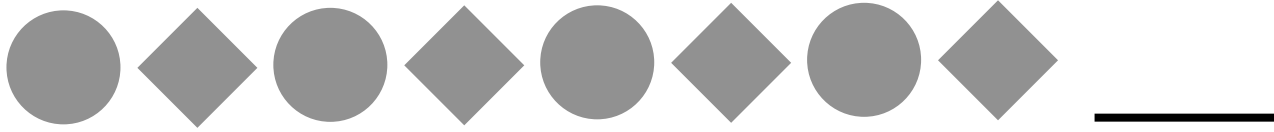
- Your name, grade and teacher (We need to know who you are!)
- Your work on at least one of the challenges. (To participate, you only have to try!)

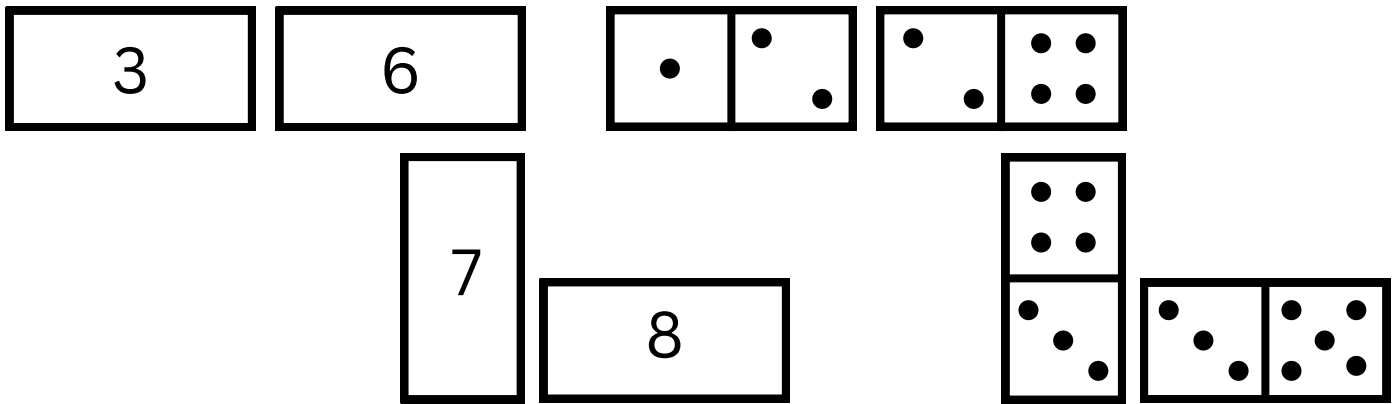
We will post the solutions after the announcement at the monthly assembly!

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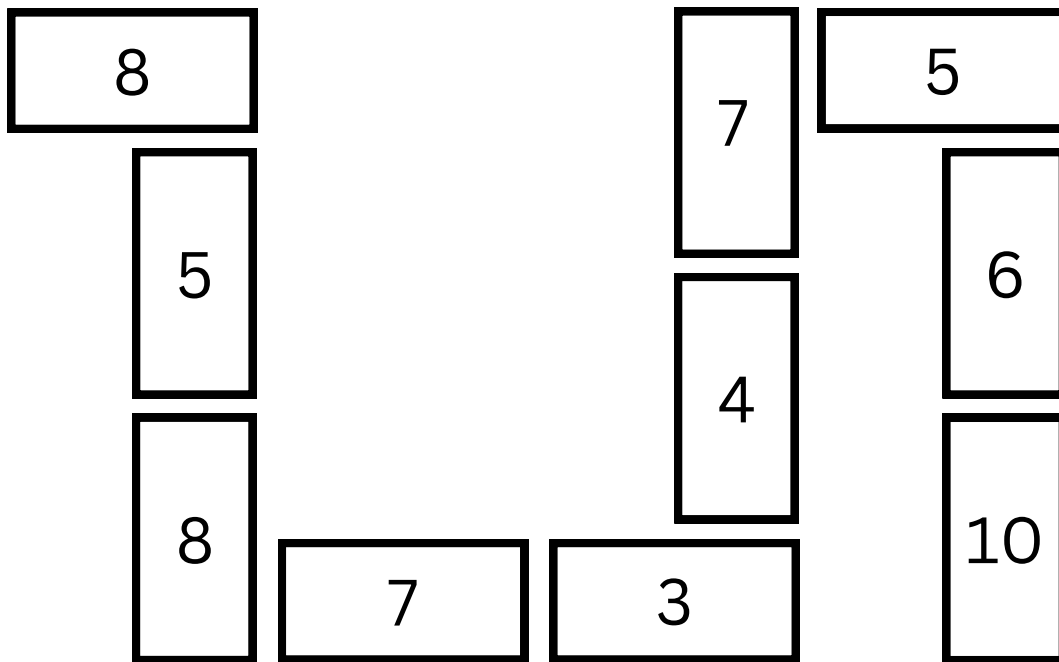
Grade: ___ Teacher: _____

Look for a pattern in the shapes below and tell us - what comes next?

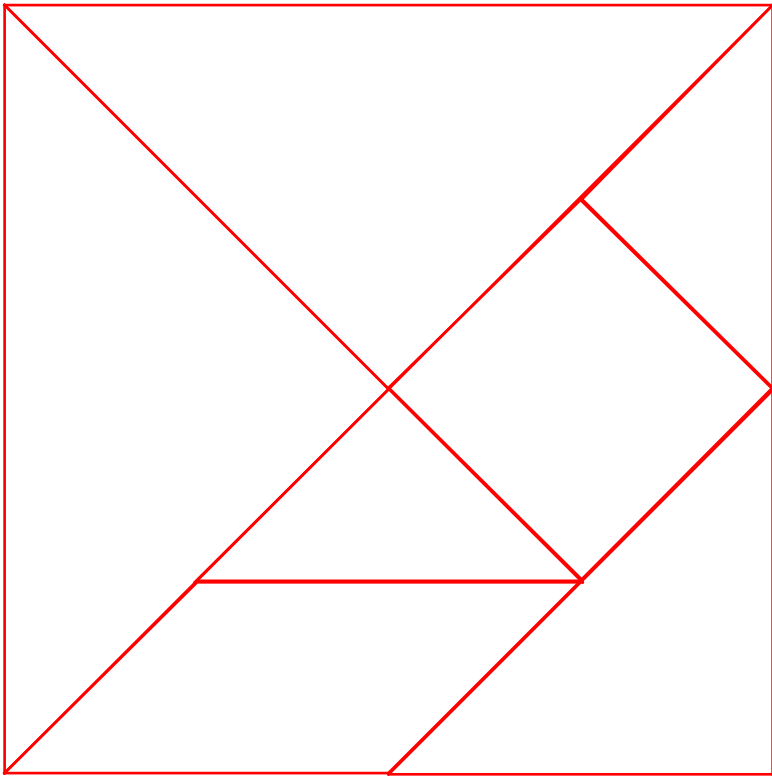




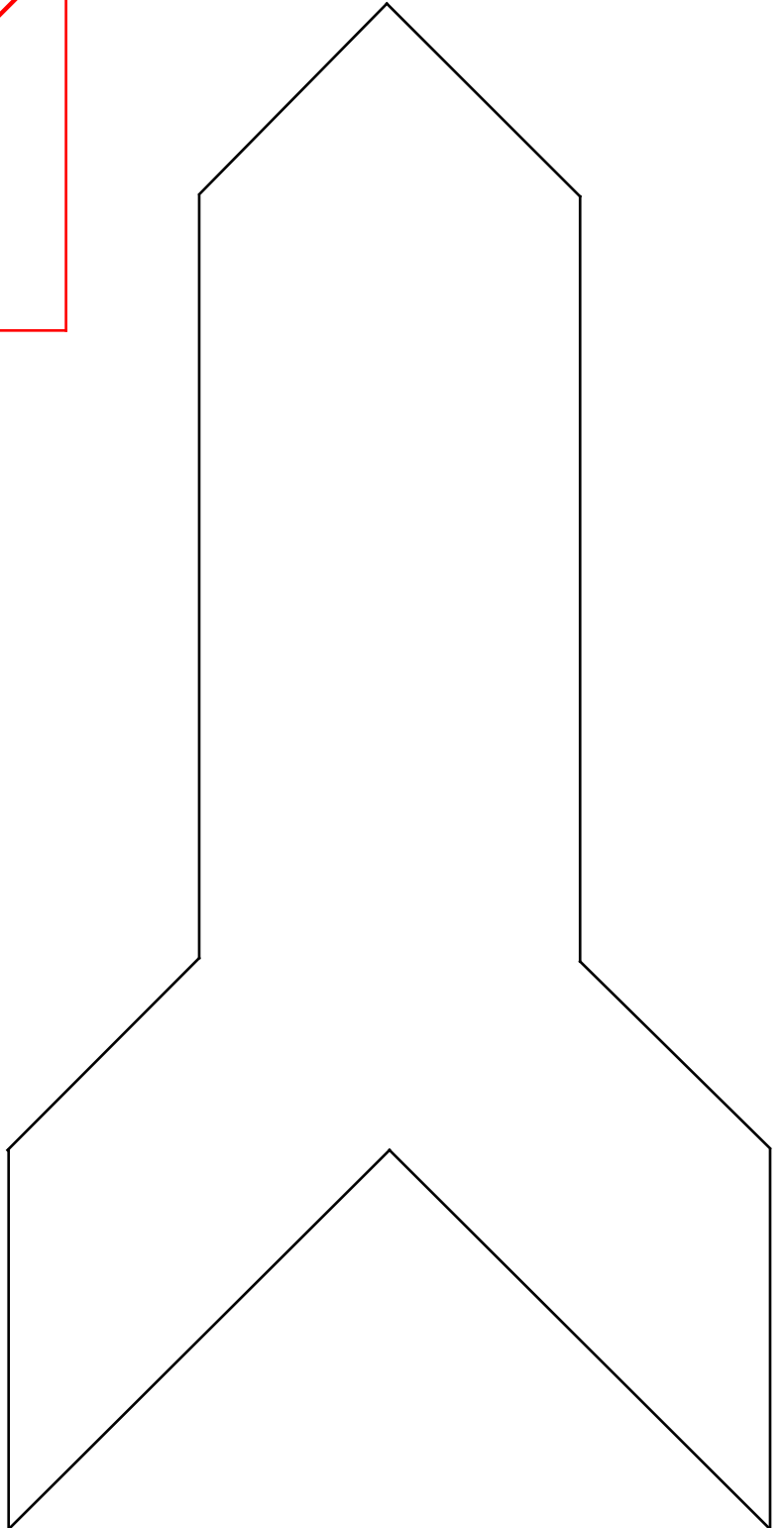
Which dominoes can be used to make the below chain? Domino sides that touch must match. Look at the example to above for ideas.



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 Grade: _____ Teacher: _____



Tangram puzzle. Use the 7 polygons in the square to the left to create the rocket shape below.



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Math Challenge

Name: _____

Grade: _____

Teacher: _____

Use the following 4 numbers to find an expression for each number from 1 to 10. You must use each number once and only once. You may use addition, subtraction, multiplication, division and parentheses. The number 0 has been done as an example.

Numbers to use: 4, 5, 6, 7

$$0 = 7 + 4 - 6 - 5$$

$$1 =$$

$$6 =$$

$$2 =$$

$$7 =$$

$$3 =$$

$$8 =$$

$$4 =$$

$$9 =$$

$$5 =$$

$$10 =$$

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Macaws are a majestic breed of bird, with wingspans ranging from 34 to 56 inches, they are also huge! But sometimes, even these grand birds can need a little help. Macaws 101, a rescue group, has been rescuing and releasing injured and orphaned birds into the wild for a number of years now. Using the clues below, determine which bird was released in which month, the birds given name, age and wingspan.

- Of the 14-year-old Macaw and the 13-year-old Macaw, one was Mandy and the other was released in May.
- The bird released in June has a wingspan 4 inches shorter than Mandy.
- Sammy has a wingspan somewhat longer than the 13-year-old bird.
- Neither the bird with a wingspan of 46 inches nor Mandy is the 10-year-old bird.
- The Macaw released in April has a wingspan somewhat longer than Slappy's.
- The Macaw released in March is either the one with a wingspan of 46 inches or the 8-year-old bird.
- Bart doesn't have a wingspan of 46 inches.

		Name				Age				Month			
		Bart	Mandy	Sammy	Slappy	8	10	13	14	March	April	May	June
Wing Span	38"												
	42"												
	46"												
	50"												
Month	March												
	April												
	May												
	June												
Age	8												
	10												
	13												
	14												

	Name	Age	Month
38"			
42"			
46"			
50"			

Play This Logic Puzzle
ahapuzzles.com/x/lp/101

Clyde Hill Feb 2023 Math Challenge Name: _____
Grade: _____ Teacher: _____

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Can you decode the message below? Each letter in the original message has been substituted for a different letter. For instance all Z's in the original message might show up as Os in the encoded message. (This particular substitution is an example and might not be the case in the message below.) What does the original message remind us to do?

RFGQ GQ RFC AMSEYP AMBC. QFMU

PCQNCAR, QMJTC NPMZJCKQ, KYIC EMMB

AFMGACQ.