

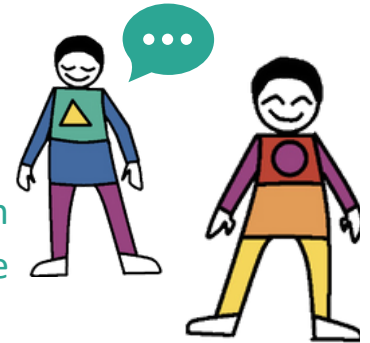
# MATH WHILE YOU WAIT!

## shape sudoku

◆	▲	■	
	●		
		●	
●	■	◆	

Complete the grid so that each row, column, and 2x2 box contains just one of each shape.

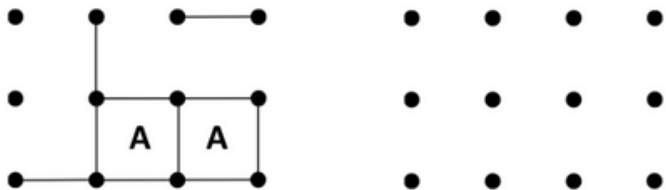
## have a math chat!



Can you find 5 circles from where you're sitting? How are they different from each other?  
Can you find 5 rectangles?

## dots and boxes (2 players)

On your turn, connect two adjacent dots. When you complete a box, score a point and play again. When no more lines can be drawn, the player with the most points wins. Keep score by writing your initial in each box you make.



## fix 8

Cross out some of the numbers so that the remaining numbers in each row and column add up to 8.

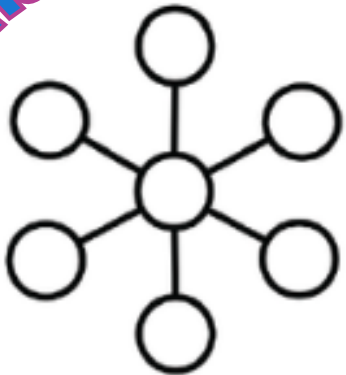
6	3	5	2
2	1	4	5
3	4	1	3
6	4	2	5



Want more? Go to: [earlyfamilymath.org](http://earlyfamilymath.org)

# MATH WHILE YOU WAIT!

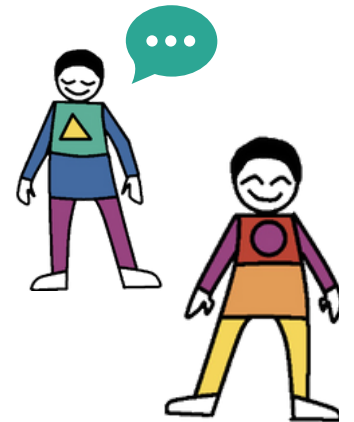
## magic flower



Use the numbers 1 to 7 so that the sums for all straight lines of three circles are the same.

## have a math chat!

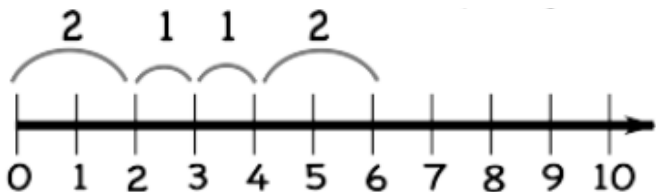
How many chairs are there in this waiting room? How many chairs have people on them? How many will have people on them if 2 more people came?



## nim with 1 and 2 (2 players)

Choose a target number, say 10. Let your child choose to go first or second. Start at 0. Players take turns and choose to add either 1 or 2 to the current total. Count out loud the total after each turn.

The player who lands on the target (e.g. 10) wins.

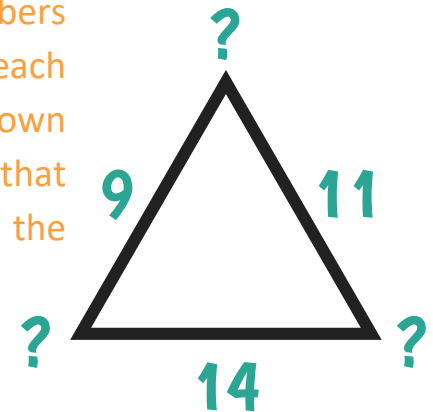


Want more? Go to: [earlyfamilymath.org](http://earlyfamilymath.org)

## ???

## mystery sums

This triangle has secret numbers on its corners. The sum of each pair of secret numbers is shown in the middle of the side that connects them. Can you find the three secret numbers?



# MATH WHILE YOU WAIT!

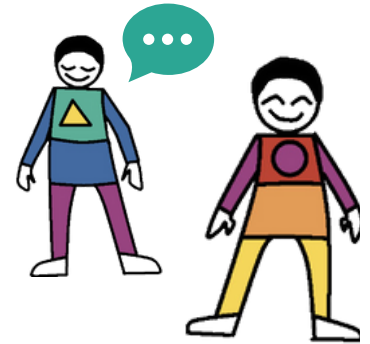
## magic square

8	1	
		7
4		2

In this magic square, all of the rows, columns, and diagonals add up to the same number. Can you use 3, 5, 6, and 9 once each to complete this magic square?

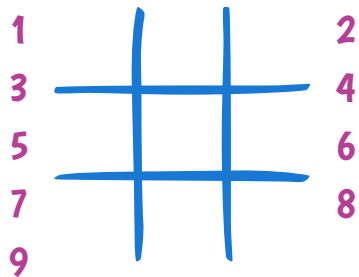
## have a math chat!

Can you find something that there are 4 of in this room? What about 2 or 3 of something?



## math tic-tac-toe

One player uses only odd numbers, the other uses only even numbers. Take turns putting a number on the board (odd player starts). The first player completing 3 in a row with a sum of 15, using either player's numbers, wins. You may only place a number once!



## f \_ ll in the bl \_ nks

Make this sum as close to 1000 as you can using the numbers 1 to 9 once each in the boxes.

$$\begin{array}{r} \square \square \square \\ \square \square \square \\ + \square \square \square \\ \hline \end{array}$$

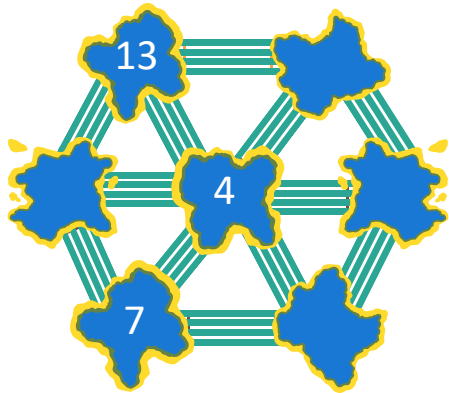
1 2 3 4 5 6 7 8 9



Want more? Go to: [earlyfamilymath.org](http://earlyfamilymath.org)

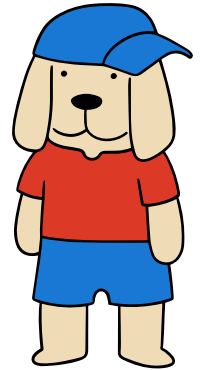
# MATH WHILE YOU WAIT!

## island hopping



Hop from island to island via the bridges and fill in the blanks. Starting number: 1 Ending number: 19 Skip count by 3!

## dress the dog!



This dog loves to dress up! It has hats, shirts and pants in both blue and red. How many different outfits can he make?

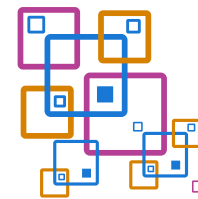
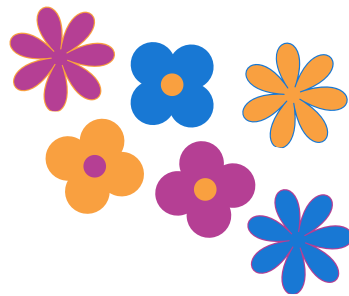
If he also had a hat, shirt, and pants in yellow, how many different ways could he dress up?

Hint: You can use colored pencils and draw him.

## petal problem

In a magical garden only 2 kinds of flowers grow. Flowers with 4 petals and flowers with 7 petals.

Is it possible to pick some flowers so that the total number of petals is 13? How about 15 petals? For which numbers of petals is it possible to pick flowers?



## sum square

Fill in the numbers 2, 3, 5, 7, 8, and 9 so the three numbers in a row or column add up to the number next to the row or under the column.

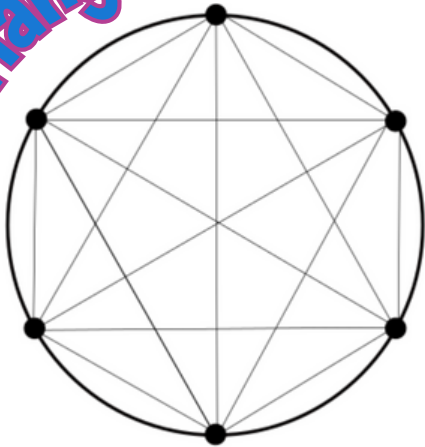
6			14
		4	14
	1		17
15	12	18	



Want more? Go to: [earlyfamilymath.org](http://earlyfamilymath.org)

# MATH WHILE YOU WAIT!

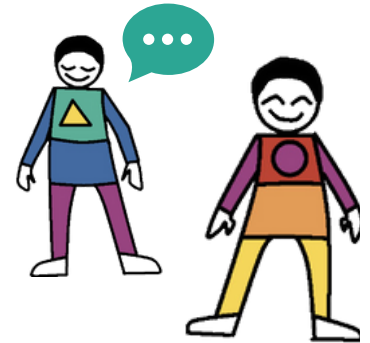
sim triangle



Two players take turns drawing lines between the dots (each using their own color). The first player forced to complete a triangle with all corners on the circle and all sides with their color loses.

## have a math chat!

Can you find 5 triangles from where you're sitting? How are they different from each other? Can you find 5 squares?



## happy 5!

Counting from 1 to 100 (or another number), do NOT say multiples of "5". Instead say "HAPPY"!

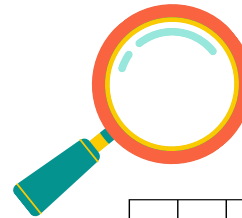
1, 2, 3, 4, HAPPY, 6, 7, 8, 9, HAPPY, etc.

With more people, each person takes a turn saying the next number. The person who says a multiple of 5 loses and the game starts over.

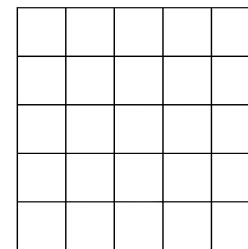
Make it harder and choose, for example, not to say a multiple of 3 or 5: 1, 2, HAPPY, 4, HAPPY, HAPPY, 7, 8, HAPPY, HAPPY, 11, etc.



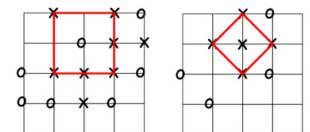
Want more? Go to: [earlyfamilymath.org](http://earlyfamilymath.org)



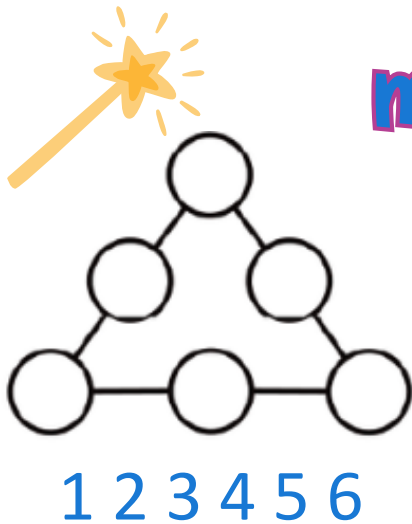
## finding squares



← Draw a 5x5 grid like this. Player 1 (draws O's) and player 2 (draws X's) take turns putting their O's and X's on points where the lines cross. The first player with four O's or X's on the corners of a square of any size wins. Here are 2 examples of finished games where X wins:



# MATH WHILE YOU WAIT!



## magic triangle

The circles on each side of a Magic Triangle add up to the same number.

Challenge: Use 1 to 6 once each to make Magic Triangles. How many ways can you do it?

## spot the odd



For each of these four objects, point out something the other three have and that one doesn't.



## make 10

1	5	3	2
4	3	7	4
5	3	5	6
3	4	1	4

Break this whole square into groups of two or three numbers that add up to 10 by circling the groups.

A group's numbers must share sides. Is there only one way to solve this?

## math fun - math pun

Why did the two 4's skip lunch?...

because they already 8

Why did 2 and 0 break up?...

because someone came between them



Want more? Go to: [earlyfamilymath.org](http://earlyfamilymath.org)

# MATH WHILE YOU WAIT!



## broken calculator

This calculator is broken.  
The only keys that work are:

4, 7, -, and +. It is still possible to make every number. For example:  $1 = 4 + 4 - 7$ .  
Show how you can make every number from 1 to 12.

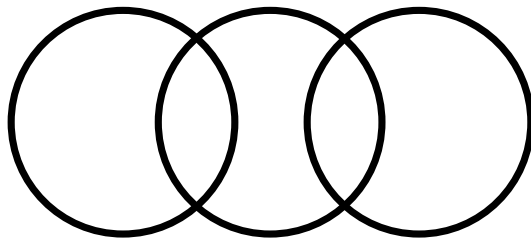
## have a math chat!

Pick two items in the room that are somewhat similar. How are they the same? How are they different?

Consider a spoon and a fork:  
They are similar because you eat with them; they are different because one is pointy and one is round.

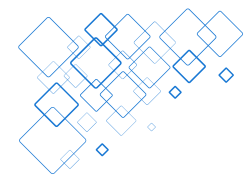


## same sums



1 2 3 4 5

These three circles create five regions. Put 1 to 5 once each in these regions so the sum of the numbers in each circle is the same.



## pattern pursuit

Player 1 makes a pattern and challenges player 2 to repeat it: step, clap, jump. Player 2 repeats and adds to the pattern: step, clap, jump, slap. Keep going!  
Create patterns with sounds, shapes, movements and any way you can think of.



Want more? Go to: [earlyfamilymath.org](http://earlyfamilymath.org)