

Day 1

Popsicle Tallies (Source: mathlearningcenter.org)

A first grade class voted on their favorite Popsicle flavors. They used tally marks to show many votes each flavor got.

Flavor		Votes
Cherry		
Orange		
Grape		

- How many votes did Cherry get? _____
- How many votes did Orange get? _____
- How many votes did Grape get? _____
- How many votes were there in all? _____
- Draw a circle around the name of the flavor that got the most votes.

Cherry

Orange

Grape

- Draw a line under the name of the flavor that got the least votes.

Cherry

Orange

Grape

Create an Equation

Use only the digits 1 to 7, at most one time each, fill in the boxes to create a true equation. (Source: <https://www.openmiddle.com/>)

$$\boxed{}\boxed{} = \boxed{}\boxed{} + \boxed{}\boxed{}$$

Making Zero (Source: <https://playwithyourmath.com/>)

Place a **+** or **-** in each $\square$ to make 0.

$$0 = 1 \square 2 \square 3 \square 4$$

How about?

$$0 = 1 \square 2 \square 3 \square 4 \square 5$$

Day 2

Trading

Kevin has earned 10 stickers for reading books. He can trade the stickers for items in the class store.

- 1 sticker - bookmark
- 2 stickers - eraser
- 3 stickers - pencil
- 4 stickers - notepad

What can Kevin get with his 10 stickers?

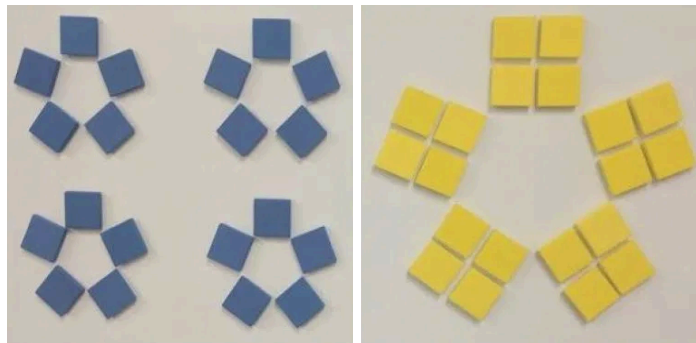
Twenty One Game

The object of this game is to be the first one to say "21". The first person must start at "1." Each person may say one, two, or three numbers per turn, and the numbers must be in counting order. Each person must start with the number after the last one that the other person said. For example, the first person can say "1," or "1, 2," or "1, 2, 3." If the first person says "1, 2," then the second person could say "3" or "3, 4," or "3, 4, 5." Whoever says "21" wins the game. Play this game many times and try to discover a winning strategy. (Source: <https://garyhall.org.uk/>)

Noticing

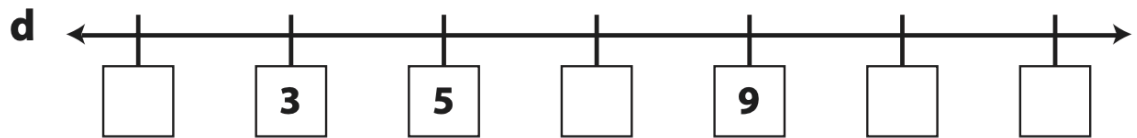
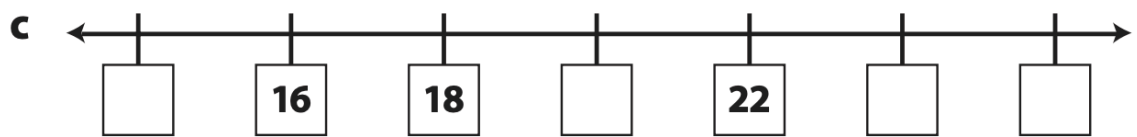
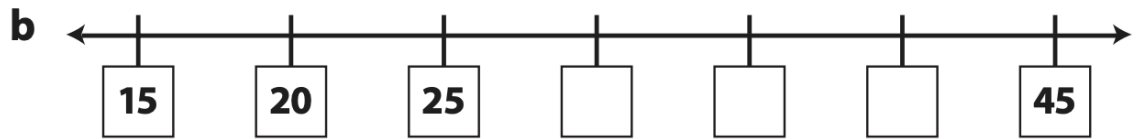
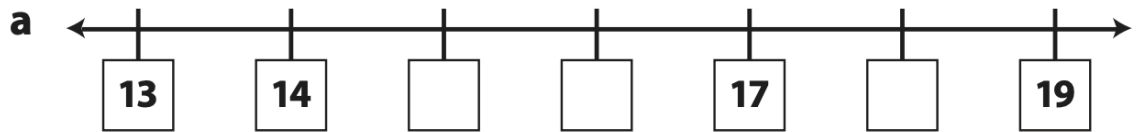
On a piece of paper, make two columns. In one column, list the things that are the same in this picture, and in the other column, list the things that are different.

(Source: <https://samedifferentimages.wordpress.com/>)



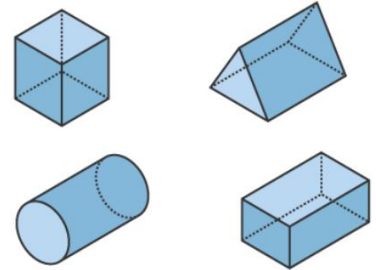
Day 3Number line (Source: mathlearningcenter.org)

Fill in the missing numbers on each number line below.

**Which One Doesn't Belong?**

Choose one shape in this picture that you don't think it belongs with the rest. Explain why. Can you pick another shape and give a different reason?

(Source: wodb.ca)

**Making Change**

Make 47¢ in three different ways with either quarters, dimes, nickels, or pennies.

(Source: <https://www.openmiddle.com/>)

Day 4Solve these equations. (Source: mathlearningcenter.org)

$4 + 2 = \underline{\hspace{2cm}}$ $14 + 2 = \underline{\hspace{2cm}}$ $24 + 2 = \underline{\hspace{2cm}}$ $8 + 2 = \underline{\hspace{2cm}}$

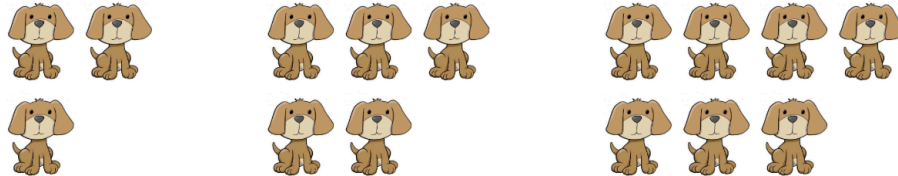
$18 + 2 = \underline{\hspace{2cm}}$ $28 + 2 = \underline{\hspace{2cm}}$ $16 - 2 = \underline{\hspace{2cm}}$ $26 - 2 = \underline{\hspace{2cm}}$

Coins

I have 6 coins worth 51¢. What coins do you think I have? Is there more than one answer?

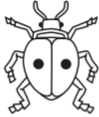
Visual Pattern

Below is a pattern of puppies in stages 1-3 below. Draw what you think stage 4 might look like. Label how many puppies are in each stage. (Source: visualpatterns.org)



Day 5

Answer the questions about these insects. (Source: mathlearningcenter.org)

4 2-spotted ladybugs 	10 2-winged flies 	6 2-spotted ladybugs 	20 2-winged flies 
How many spots in all?	How many wings in all?	How many spots in all?	How many wings in all?

Story Problem (Source: mathlearningcenter.org)

Mark has 3 dogs, 5 cats, and 8 fish. How many pets does he have in all? Show your work.

Add, Subtract & Compare (Source: mathlearningcenter.org)

Fill in the missing numbers on the addition table. Some of the numbers have already been filled in for you.

+	2	3	4	5	6	7
1	3					
2			6			
3						10
4						
5		8			11	
6						

Day 1

 Battling Bugs (Source: mathlearningcenter.org)

Suzy Spider and Freddy Fly are playing another game of Battling Bugs. Fill in the sentence beside the strips to show the difference between their scores in each problem below. Write or complete a subtraction equation to match.

ex	  6	The difference between <u>6</u> and <u>3</u> is <u>3</u> .
	  3	<u>6 - 3 = 3</u>
a	  5	The difference between ____ and ____ is ____.
	  4	_____
b	  7	The difference between ____ and ____ is ____.
	  7	_____
c	  2	The difference between ____ and ____ is ____.
	  6	<u>6 - 2 =</u> _____
d	  5	The difference between ____ and ____ is ____.
	  10	<u>10 - 5 =</u> _____

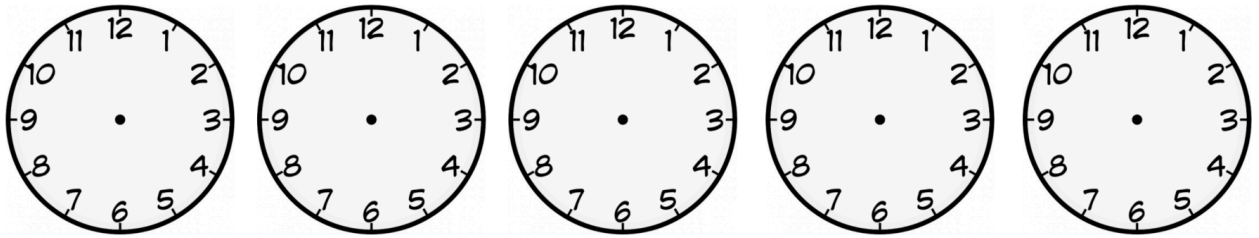
Add up each bug's points to find out who won the game.

 Points	6 + 5 + 7 + 2 + 5 =
 Points	3 + 4 + 7 + 6 + 10 =

Which bug won? _____ By how many points? _____ Show your work.

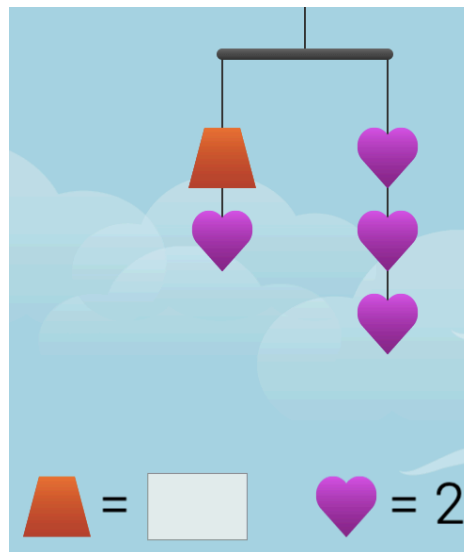
Time Twister (Source: <https://www.openmiddle.com/>)

Using the digits 0 to 9, at most one time each, create three different times on the clocks where the span of the times are between 12 noon and 7 pm. How can you make the difference between the times the greatest? closest times together?



Mobile (Source: <https://solve.me.edc.org/Mobiles.html>)

What is the value of the trapezoid?



Day 2

Counting (Source: <https://christopherdanielson.wordpress.com/>)

How many eggs do you see? How many are missing? How did you count them?



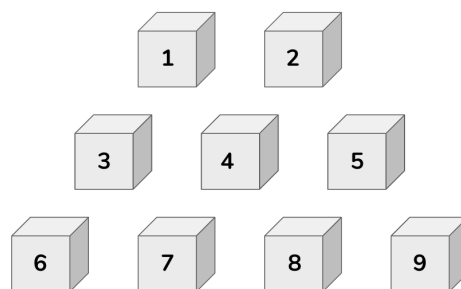
2-Digit Addition (Source: mathlearningcenter.org)

When Pencil Puppy does 2-digit addition, she adds the tens first. Next, she adds the ones. Then she adds the two numbers to get the answer. Try her strategy.

ex <table style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px 10px;">Tens</th> <th style="padding: 2px 10px;">Ones</th> </tr> <tr> <td style="text-align: center; font-size: 24px;">3</td> <td style="text-align: center; font-size: 24px;">7</td> </tr> </table> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding-right: 10px;">+</td> <td> <table> <tr> <th style="padding: 2px 10px;">Tens</th> <th style="padding: 2px 10px;">Ones</th> </tr> <tr> <td style="text-align: center; font-size: 24px;">2</td> <td style="text-align: center; font-size: 24px;">7</td> </tr> </table> </td> </tr> </table> 30 + 20 = <u>50</u> 7 + 7 = <u>14</u> 50 + 14 = <u>64</u>	Tens	Ones	3	7	+	<table> <tr> <th style="padding: 2px 10px;">Tens</th> <th style="padding: 2px 10px;">Ones</th> </tr> <tr> <td style="text-align: center; font-size: 24px;">2</td> <td style="text-align: center; font-size: 24px;">7</td> </tr> </table>	Tens	Ones	2	7	a <table style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px 10px;">Tens</th> <th style="padding: 2px 10px;">Ones</th> </tr> <tr> <td style="text-align: center; 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Stacking Up (Source: *Great Critical Thinking Puzzles*, Michael A. DiSpezio, 1997)

Arrange these numbered blocks into three equal stacks so that the sum of the numbers displayed in each stack must equal to any other stack.



Day 3

Story Problem (Source: mathlearningcenter.org)

The kids in Ms. Nelson's class did a survey of all the second grades to find out about kids' favorite pets. Use their chart to help answer the questions below.

2nd Grade Favorite Pets	
Pets	Number of Kids
Fish	17
Birds	8
Cats	45
Dogs	62

- A. How many more kids like fish than birds the best? Show your work.
- B. How many more kids like dogs than cats the best? Show your work.

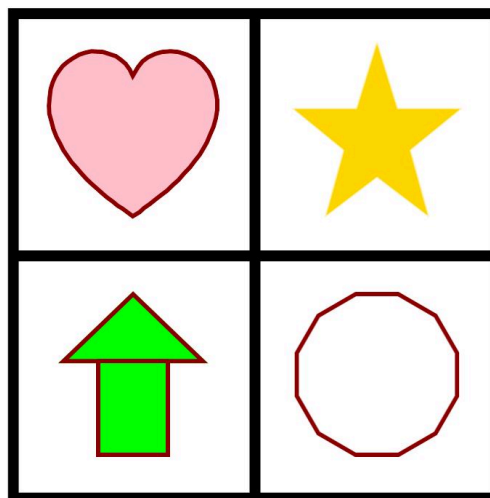
Subtraction with Regrouping 2 (Source: <https://www.openmiddle.com/>)

Using the digits 1 to 9 at most one time each, fill in the boxes to make the difference equal to 39.

$$\begin{array}{r} \square \square \\ - \square \square \\ \hline 39 \end{array}$$

Which One Doesn't Belong? (Source: wodb.ca)

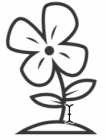
Choose an object in this picture that you don't think belongs with the rest. Explain why. Can you pick another object and give a different reason?



Day 4

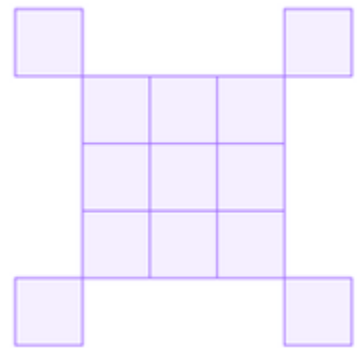
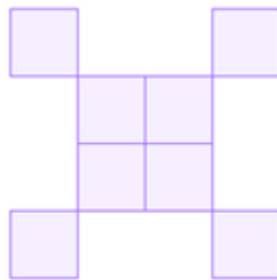
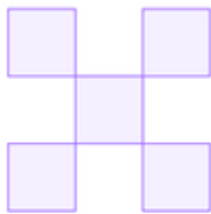
Story Problem (Source: mathlearningcenter.org)

Jen had some flowers. Her friend gave her 9 more flowers. Now she has 14 flowers. How many flowers did Jen have to start with? Show your work.



Visual Pattern (Source: visualpatterns.org)

Below is a pattern of squares in stages 1-3 below. Draw what you think stage 4 might look like. Label how many squares are in each stage.

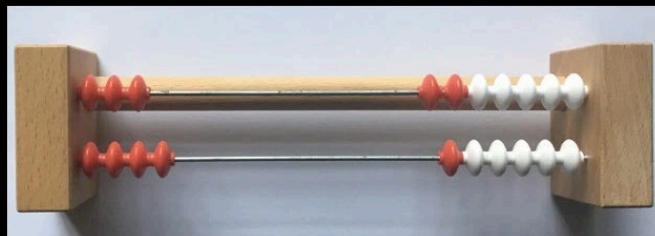
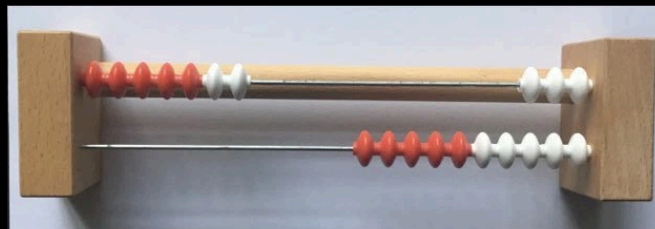


Noticing

On a piece of paper, make two columns. In one column, list the things that are the same in this picture, and in the other column, list the things that are different.

(Source: <https://samedifferentimages.wordpress.com/>)

What's the same? What's different?



Day 5

Cookies (Source: mathlearningcenter.org)

There were 15 cookies on the plate. The dog ate some of them. Now there are only 7 cookies on the plate. How many did the dog eat? Show your work.



Sorting Numbers (Source: mathlearningcenter.org)

Read the numbers in the box. Then write them in order on the lines from least to greatest.

261	107	67	113	204
-----	-----	----	-----	-----

least _____, _____, _____, _____, _____ greatest

Add, Subtract & Compare (Source: mathlearningcenter.org)

Fill in the missing numbers on the addition table. Some of the numbers have already been filled in for you.

+	3	4	5	6	7	8
3	6					
4			9			
5						13
6						
7		11			14	
8						

Day 1

Large Numbers (Source: mathlearningcenter.org)

Read each number. Then write it in expanded form.

ex three hundred twenty-nine $329 = 300 + 20 + 9$	a four hundred thirty-eight
b two hundred sixteen	c five hundred seventy-three
d one hundred ninety-eight	e six hundred three
f nine hundred sixty-seven	g eight hundred seventeen

Sums to 100 (Source: <https://www.openmiddle.com/>)

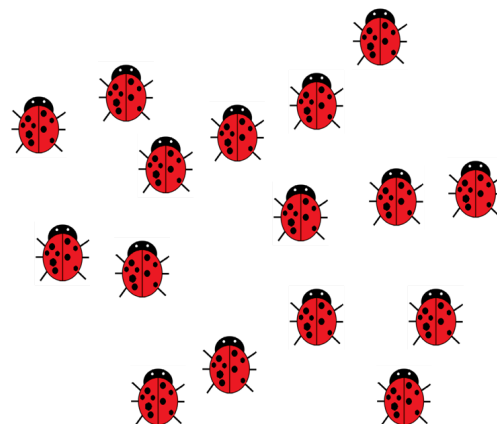
Using the digits 1 to 9 at most one time each, fill in the boxes to create the closest possible sum to 100.

--	--	--	--	--	--	--	--

Counting (Image from <https://www.edplace.com/>)

How many do you see? What did you count?

How did you count them?



Day 2

Extra Facts (Source: mathlearningcenter.org)

Sometimes story problems give you more facts than you need to solve the problem. In each problem below, cross out the fact you don't need. Then solve the problem. Show your work.

- A. Nick has 3 cats. He had 12 fish. He gave 4 of the fish to his friend. How many fish does he have left?



- B. Lin's big sister is 15. She listened to 8 songs on her music player in the morning. She listened to 9 more songs that night. How many songs did she listen to in all?



- C. Amber made 9 cupcakes. Then she made 12 more cupcakes. It took 2 cups of sugar to make the frosting. How many cupcakes did she make in all?

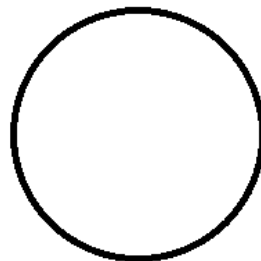


- D. The Green Dragon had 250 gold pieces. He is 18 feet tall. He is mad because the trolls took 60 of his gold pieces. How many gold pieces does he have left?

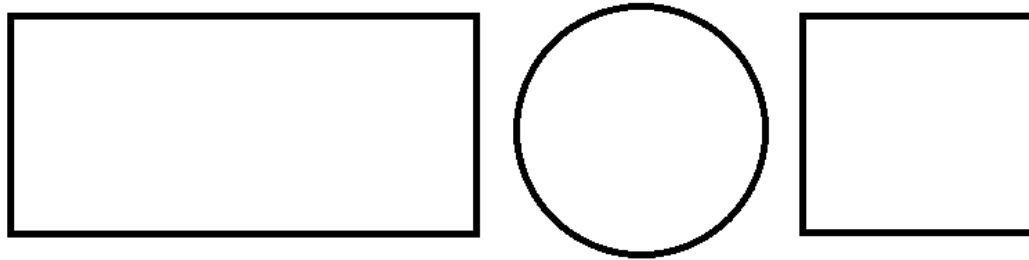


Shape Partitions (Source: <https://www.openmiddle.com/>)

Draw in segments to show how to cut each shape into fourths.

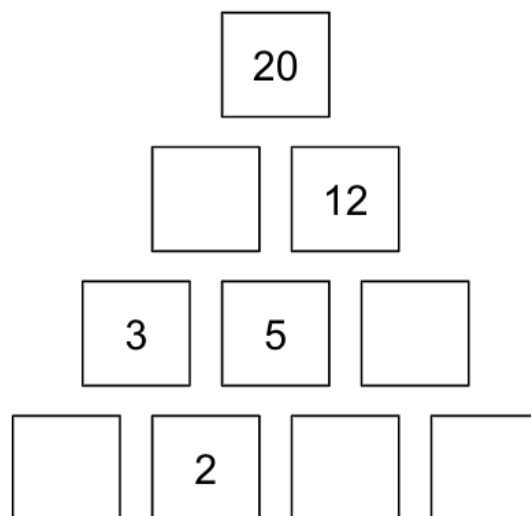


Try again with different cut patterns than what you did above.



Pyramid Puzzle #3 (Source: mathforlove.org)

Each number in the Pyramid is the sum of the two numbers below it. Fill in the missing numbers in the Pyramid. Numbers may repeat.

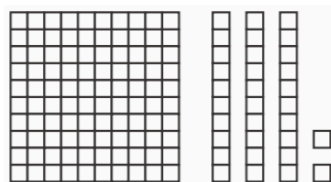


Day 3

Base Ten Pieces (Source: mathlearningcenter.org)

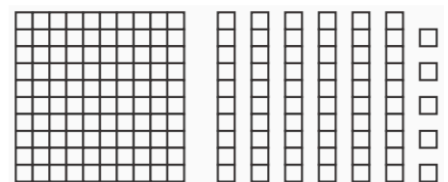
Label each set of base ten pieces with the correct number name.

ex

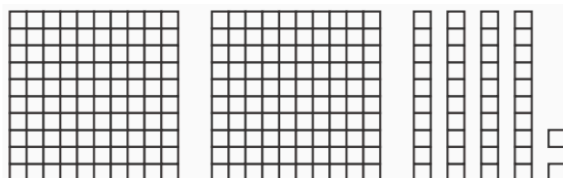


one hundred thirty-two

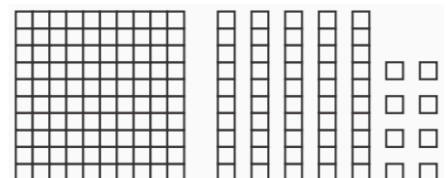
a



b

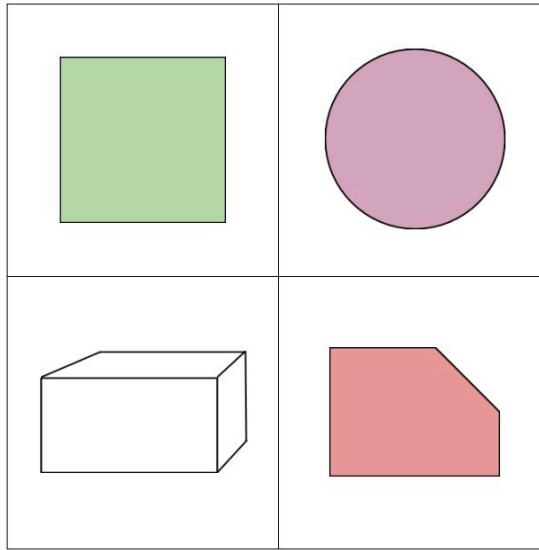


c



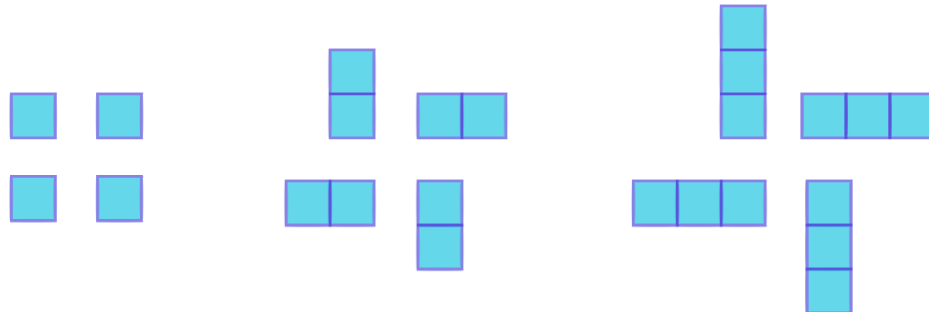
Which One Doesn't Belong? (<http://wodb.ca/>)

Choose one shape in this picture that you don't think it belongs with the rest.
Explain why. Can you pick another shape and give a different reason?



Visual Pattern (Source: visualpatterns.org)

Below is a pattern of squares in stages 1-3 below. Draw what you think stage 4 might look like. Label how many squares are in each stage.



Day 4

Circle One (Source: mathlearningcenter.org)

a	The 4 in 574 is in the	ones place	tens place	hundreds place
b	The 4 in 493 is in the	ones place	tens place	hundreds place
c	The 4 in 114 is in the	ones place	tens place	hundreds place
d	The 4 in 5,348 is in the	ones place	tens place	hundreds place

Number Riddles (Source: mathlearningcenter.org)

Solve these number riddles.

a I have a 9 in the tens place.
I have a 4 in the hundreds place.
The number in my ones place is less than 3.
I am an even number.

What number am I? _____

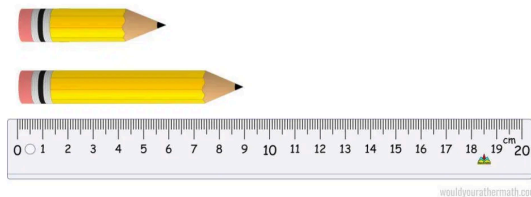
b I have a 7 in the thousands place.
I have a 0 in the hundreds place.
I have a 3 in the tens place.
The number in my ones place is greater than 7.
I am an odd number.

What number am I? _____

Would You Rather (Source: <https://www.wouldyourathermath.com/>)

Whichever option you choose, justify your reasoning with mathematics.

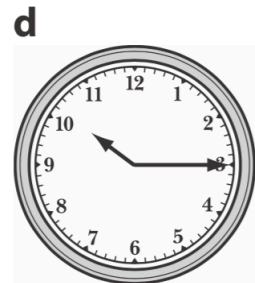
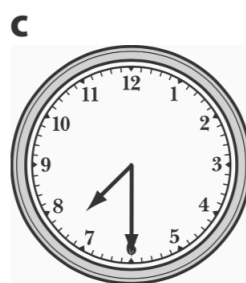
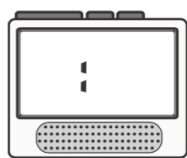
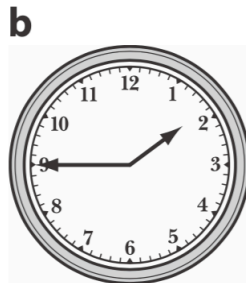
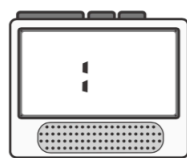
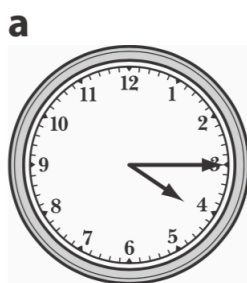
Have 3 pencils that are 9 cm each **OR** 5 pencils that are 6 cm each?



Day 5

Clocks (Source: mathlearningcenter.org)

Read each of these clock faces and write the time on the digital clock.



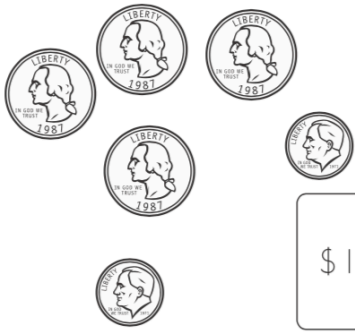
Puzzle (Source: <https://www.solveemoji.com/>)

What is the value of the last row?

$$\begin{array}{rcl} \text{cactus} & + & \text{cactus} = 16 \\ \text{cactus} & + & \text{maple} = 9 \\ \text{clover} & - & \text{maple} = 2 \\ \text{cactus} & - & \text{clover} = ? \end{array}$$

Count the Money (Source: mathlearningcenter.org)

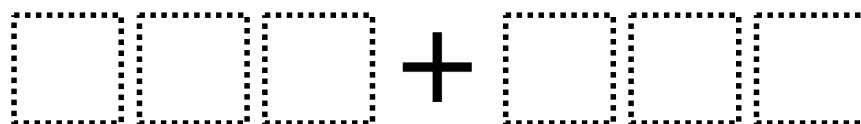
Mr. Mole needs help! He is still a little mixed up about how to use the dollar sign, the cent sign, and the decimal point. Count the money in each box and write the amount correctly.

ex  \$1.20	a Thursday  ¢
b Friday  \$ ____ . ____	c Saturday 

Day 1

Sum to 1,000 – Two Addends (Source: <https://www.openmiddle.com/>)

Arrange the digits 1-6 into two 3-digit whole numbers. Make the sum as close to 1000 as possible.



Counting (Image from <https://www.edplace.com/>)

How many do you see? What did you count? How did you count them?



Money Problems (Source: mathlearningcenter.org)

If you have an amount of money less than a dollar, you can write the amount with a cents sign or a dollar sign.

Count the money in each row, and write it in two different ways.

ex



23¢ or \$0.23

a



_____ or _____

b



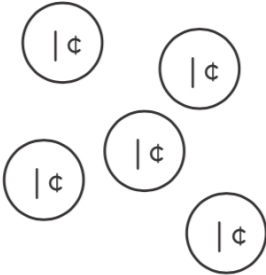
_____ or _____

c



_____ or _____

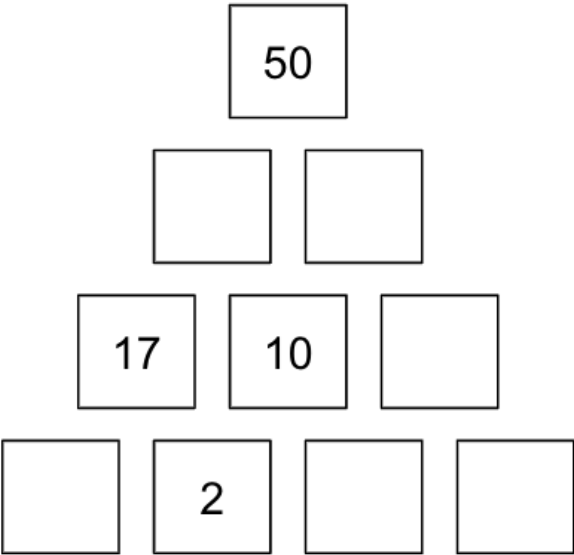
Write the name of each coin. Show how to write it with a cents sign or a dollar sign. Then draw a different way to make the same amount of money with more than one coin.

	ex	a	b
Coin Name	<u>nickel</u> 		
Written two ways	5¢		
	\$0.05		
Different way to make it.			

Day 2

Pyramid Puzzle #4 (Source: mathforlove.org)

Each number in the Pyramid is the sum of the two numbers below it. Fill in the missing numbers in the Pyramid. Numbers may repeat.



Making Change (Source: <https://www.openmiddle.com/>)

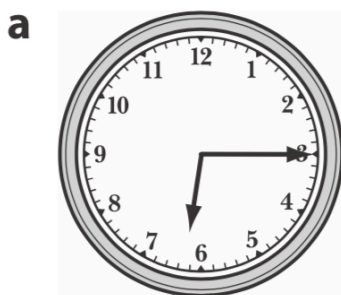
Make 47¢ using exactly 6 coins with either quarters, dimes, nickels, or pennies.



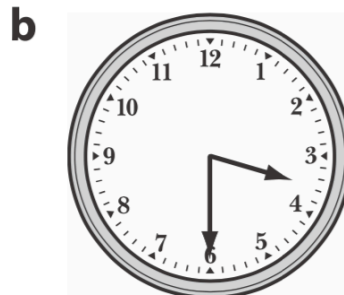
Image from <https://www.lakeshorelearning.com/>

Telling Time (Source: mathlearningcenter.org)

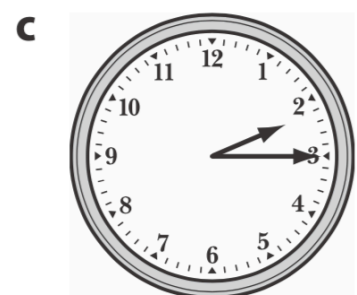
Fill in the bubble next to the correct time.



- ☐ 6:15
- ☐ 6:45



- ☐ 4:30
- ☐ 3:30



- ☐ 2:00
- ☐ 2:15

Draw the two hands on the clock to show the time.

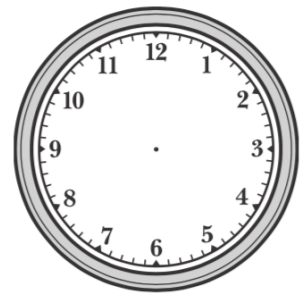
a 6:45



b 3:30



c 7:15

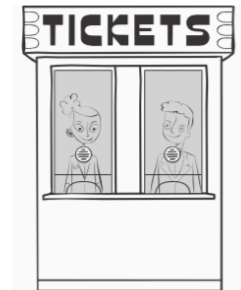


Day 3

Base Ten Pieces (Source: mathlearningcenter.org)

The carnival in our town started last week. The chart below shows how many tickets they sold each day.

Day	Number of Tickets
Saturday	978 tickets
Sunday	995 tickets
Monday	932 tickets
Tuesday	905 tickets
Wednesday	937 tickets



- A. Which day did they sell the most tickets? _____
- B. Which day did they sell the least tickets? _____
- C. Put the number of tickets they sold each day in order from least to greatest.

_____, _____, _____, _____, _____
least greatest

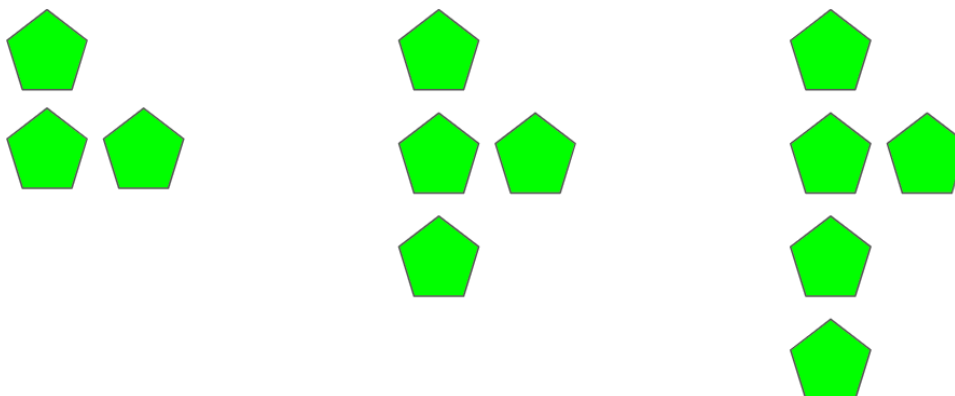
Which One Doesn't Belong? (<http://wodb.ca/>)

Choose one dice in this picture that you don't think it belongs with the rest. Explain why. Can you pick another dice and give a different reason?



Visual Pattern (Source: visualpatterns.org)

Below is a pattern of pentagons in stages 1-3 below. Draw what you think stage 4 might look like. Label how many pentagons are in each stage.



Day 4

Adding Practice (Source: mathlearningcenter.org)

Find each sum. Use the pictures of base ten pieces to help.

a



b

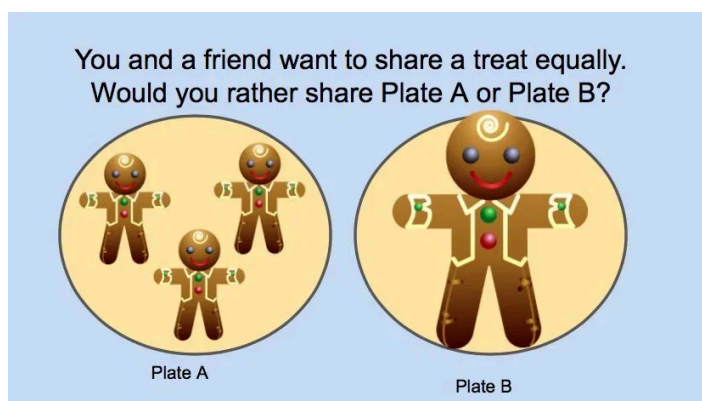


Find each sum.

$$21 + 8 = \underline{\quad\quad} \quad 42 + 7 = \underline{\quad\quad} \quad 32 + 16 = \underline{\quad\quad} \quad 24 + 13 = \underline{\quad\quad}$$

Would You Rather (Source: <https://www.wouldyourathermath.com/>)

Whichever option you choose, justify your reasoning with mathematics.



Adding Strategy (Source: mathlearningcenter.org)

Use Pencil Puppy's strategy for adding 2-digit numbers. Remember, she adds the tens first. Then she adds the ones. Then she finds the total.



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Puzzle (Source: <https://www.solvemoji.com/>)

What is the value of the last row?

	+		=	14
	-		=	1
	+		=	15
	+		=	?

Day 5

Counting by 10s and 100s (Source: mathlearningcenter.org)

Count by 10s, either forward or backward, to fill in the missing numbers.

- A. 10, 20, 30, 40, _____, _____, _____, 80, _____, 100, 110, _____, _____
- B. 280, 270, 260, _____, _____, 230, _____, _____, 200, _____, _____
- C. 203, 213, 223, _____, _____, 253, _____, _____, _____, 293, _____
- D. 567, 557, 547, 537, _____, _____, 507, _____, 487, _____, 467

Count by 100s, either forward or backward, to fill in the missing numbers.

- A. 100, 200, 300, _____, _____, _____, 700, _____, _____
- B. 950, 850, 750, _____, _____, _____, 350, _____, _____
- C. 203, 303, 403, _____, _____, _____, 803, _____, 1003
- D. 914, 814, 714, _____, _____, 414, _____, _____, _____

Bag of Marbles (Source: mathlearningcenter.org)

Jose has a bag of marbles. There are 8 red marbles in the bag. There are twice as many green marbles as red marbles. There are 2 fewer blue marbles than green marbles. There are half as many white marbles as blue marbles.

How many marbles are in the bag? Show your work.



Which strategy did you use to solve this problem? (Circle one.)

Draw a picture

Act it out with
cubes

Make a list

Other