

Student Worksheet

Answer the following questions in 20 minutes.

1. Karen bought a toy for \$25. She gave the shopkeeper \$30.
How much should she get back from the shopkeeper?

2. Solve:

$46 + 7 = \underline{\hspace{2cm}}$

$30 - 11 = \underline{\hspace{2cm}}$

$10 \div 5 = \underline{\hspace{2cm}}$

$7 \times 8 = \underline{\hspace{2cm}}$

3. Skip count by 3s: 42, 45, , , 54,

4. What comes next in the following patterns?

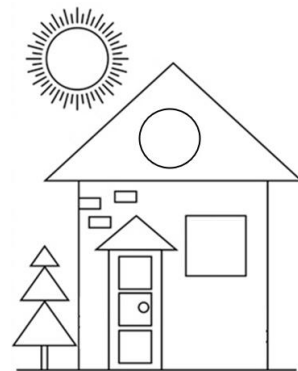
A A A B C A A A

5 3 3 2 5 3 3 2

5. Look at the picture and
count the number of:

Triangles: Rectangles:

Squares: Circles:



6. A coin is tossed once. How many outcomes are possible?
What is the probability of it landing a tail?

My Emotions

Draw how you feel **everyday** in your notebook.

Today, I feel



Tired



Happy



Sad



Confused



Angry



Scared



Player	Food	Clothing	Medicine	Others	Total
Player 1					
Player 2					
Player 3					
Player 4					

Going to school Singing Playing with my friends

Painting Helping my family Flying a kite

Spending time with animals Dancing Reading Writing

Going to the park Playing games Playing a musical instrument

Learning new things Watching a movie Swimming

Studying Keeping my things neatly Laughing


Helping others Travelling with my family Telling the truth

Watching a cartoon Sleeping on time Eating fruits


Making new friends Helping my family Growing a plant

Write the prices for each item below. Ask a friend to fill in the blanks for you to solve!


Coffee Shop Menu




Chocolate sundae




Hot chocolate



Carrot cake



Strawberry cake



Milkshake

Mia ordered  and  . She paid _____. How much should she get back?

Ana ordered    . She paid _____. How much should she get back?

Ali ordered     . He paid _____. How much should he get back?

Jon ordered     . He paid _____. How much should he get back?

Day 5

Imagine your budget is \$ 50. How many bananas and apples can you buy with it?



\$ 2



\$ 5

Try different combinations like this:

Item	Price	Quantity	Total
Apple	\$ 2	2	2 x 2 = \$ 4
Banana	\$ 5	10	5 x 10 = \$ 50
Total			4 + 50 = \$ 54

Day 1

Week 2

There are outcomes to any event – no right or wrong.
Probability (P) shows us how likely an event is to occur.

$$\text{Probability} = \frac{\text{Favorable outcomes}}{\text{Total outcomes}}$$

Example:



$$P(\text{red}) = \frac{7}{12}$$

← Number of red marbles
← Total number of marbles

$$P(\text{blue}) = \frac{5}{12}$$

← Number of blue marbles
← Total number of marbles

One Coin Experiment

Probability of getting a head = $\frac{\text{No. of heads}}{\text{Total no. of tosses}}$

Number	Outcome
1	
2	
3	
4	
5	
6	

Calculate:

- P (H)
- P (T)

Two Coin Experiment

Number	Coin 1	Coin 2
1		
2		
3		
4		
5		
6		

Calculate:

- P (HH)
- P (HT)
- P (TT)
- P (TH)

Day 2 Three Coin Experiment

No.	Coin 1	Coin 2	Coin 3
1			
2			
3			
4			
5			
6			

Calculate:

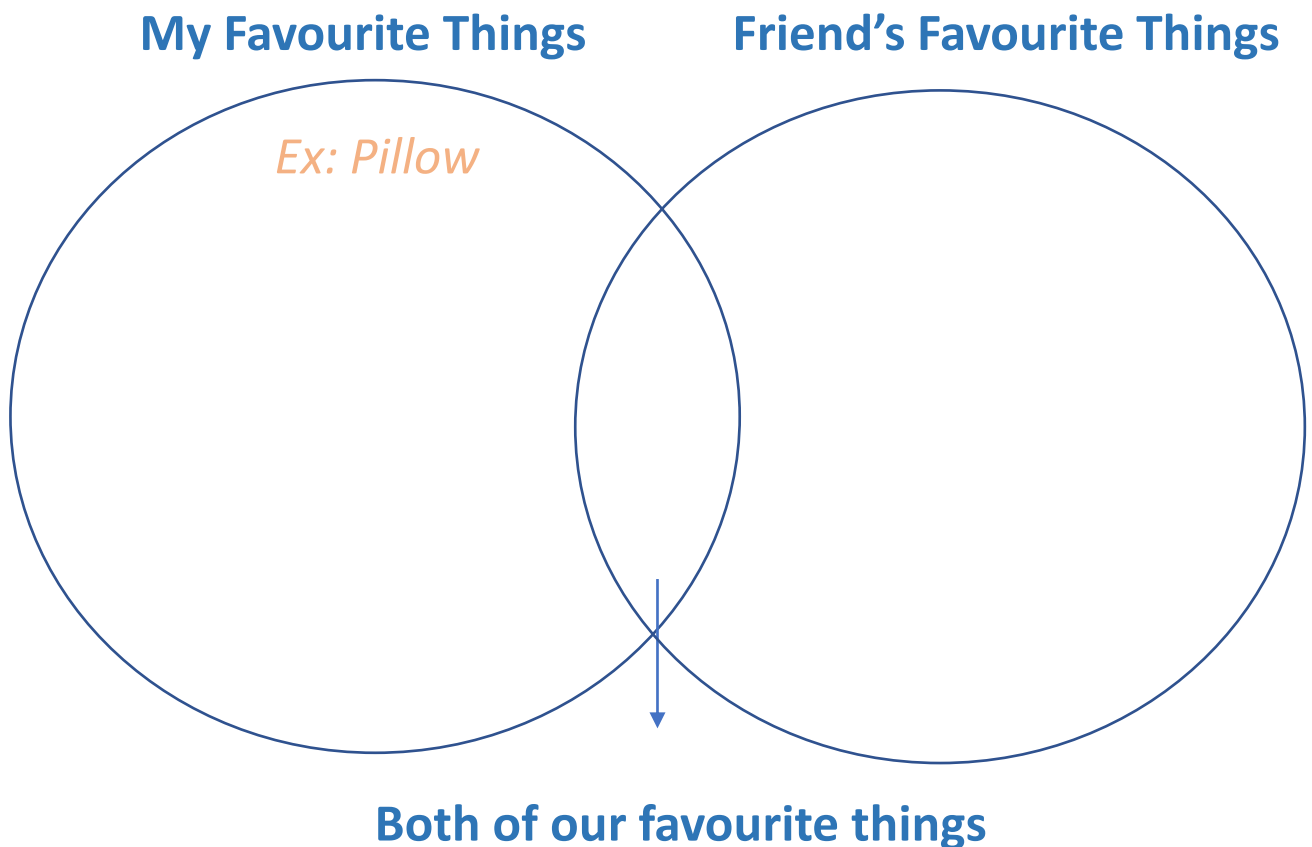
- P (HHH)
- P (TTT)
- P (2 tails and 1 head)
- P (2 heads and 1 tail)

All Possible Outcomes!

1. A **one-coin** toss has 2 outcomes – H or T
2. A **two-coin** toss has 4 outcomes – HH , HT, TH, or TT
3. A **three-coin** toss has 8 outcomes – HHH, HHT, HTH, HTT, THH, TTH, THT, TTT

Day 3

Fill the Venn Diagram below:

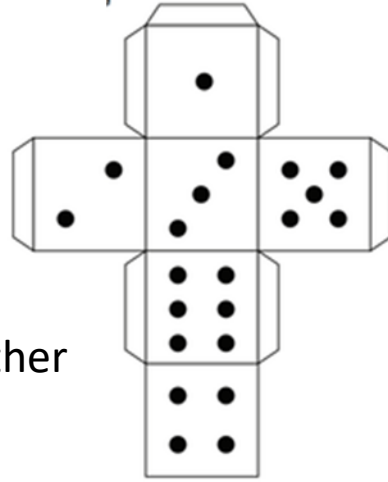


Imagine all the things from the Venn diagram is put into a bag. If you pick out any one thing, find the probability of getting:

- Your favourite thing = $\frac{\text{Total no. of your favourite things}}{\text{Total no. of things in the Venn diagram}}$
- Friend's favourite thing
- Favourite things you have in common

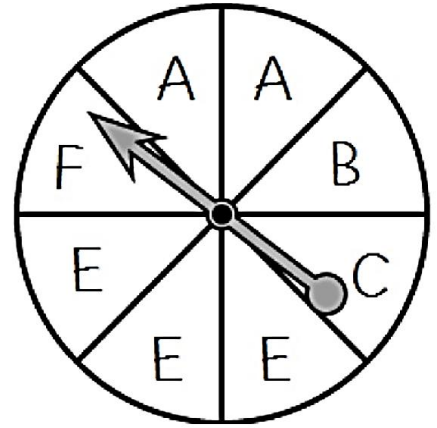
With an adult's help, make a die.

- Draw and cut the picture.
- Fold along the lines and stick together to form a cube.



Exploring Probability

1. What is the probability of the spinner landing on C? _____
2. What is the probability of not spinning an C? _____
3. What is the probability of the spinner landing A or B? _____
3. What is the probability of the spinner landing on one of the first five letters of the alphabet? _____



The marbles pictured below are gray, white, and black. They are placed in a bag and one is drawn at random.



1. Which color marble is least likely to be drawn from the bag? _____
2. What is the probability of drawing the black marble from the bag? _____
3. What is the probability of drawing a gray marble? _____
4. What is the probability of the drawing a white marble? _____
5. What is the probability of drawing a marble that is not white? _____
6. Would you be more likely to draw a marble that is not black or a marble that is not gray? Explain your answer.

Roll	Die 1	Die 2
1		
2		
3		
4		
5		
6		

Calculate:

- $P(6, 3)$
- $P(5, 1)$
- $P(3, 2)$
- $P(\text{Same number on both dice})$

Day 1 Week 3

In the past, people measured things using their bodies.

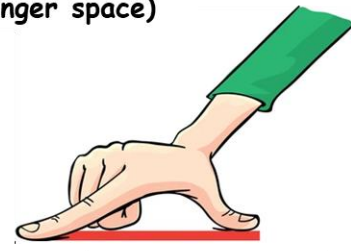


Cubit



Footspan

Digit (1 finger space)

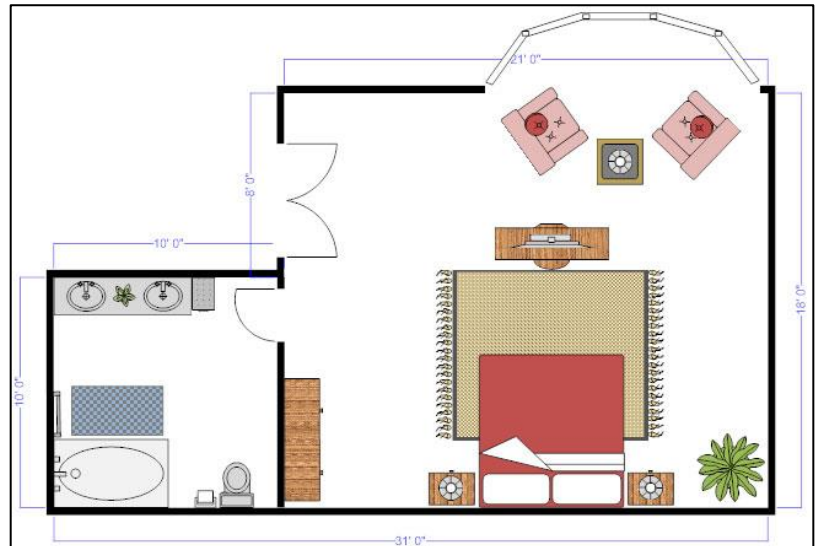


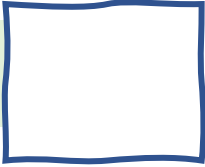
Handspan

Day 3

Observe and find:

- The walls
- The doors
- The no. of rooms
- The types of rooms
- The objects you see

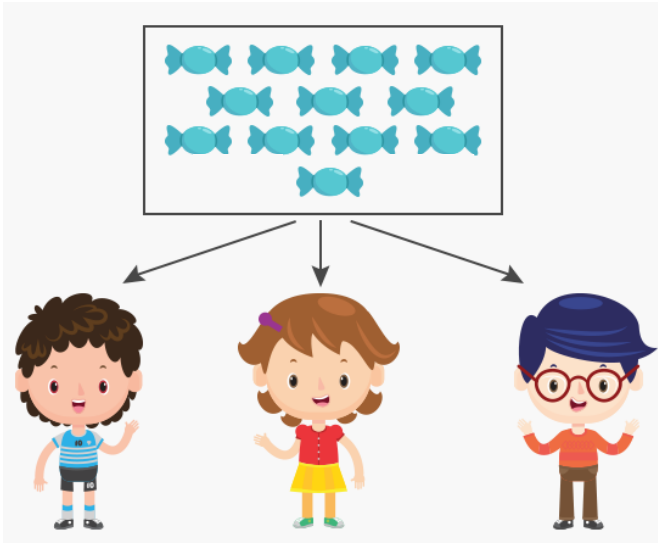


Perimeter  digits

Area  squared digits

Division

Distribute 12 candies among 3 people equally.



Each person gets _____ candies.

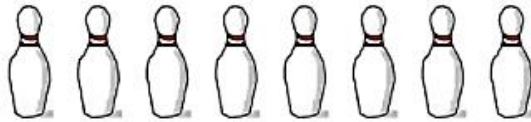
So, $12 \div 3 = \underline{\quad}$

OR $\frac{12}{3} = \underline{\quad}$

If there were 14 candies, how many would be left over?
This is called the **remainder**.

Use the pictures to solve the division problems.

$8 \div 2 = \underline{\quad}$



$10 \div 5 = \underline{\quad}$

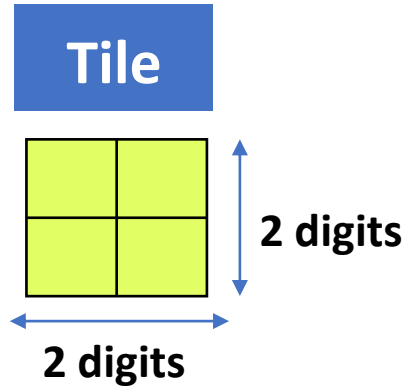
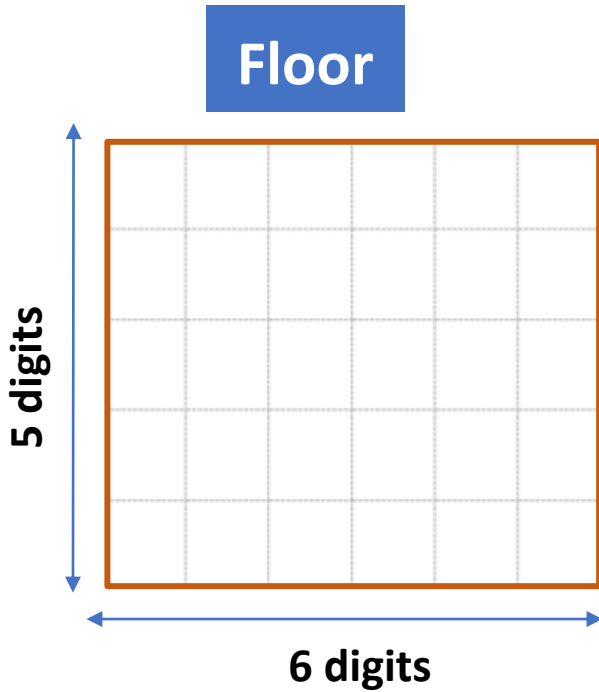


$9 \div 3 = \underline{\quad}$



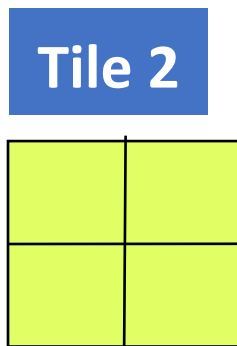
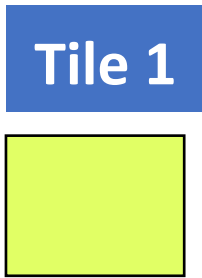
$5 \div 5 = \underline{\quad}$





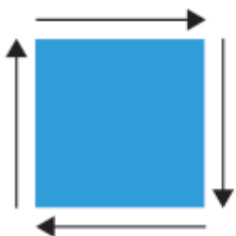
- Find the area of the floor.
- Find the area of 1 tile.
- No. of tiles = $\frac{\text{Floor's Area}}{1 \text{ Tile's Area}}$ needed

How many tiles of each type will you need for your house's floor?



Create your own tile. Add designs or a symbol to it!

Concepts



PERIMETER

The distance around the edge of a shape.



AREA

The amount of space inside the shape.

Bathroom: 9 sq. meters

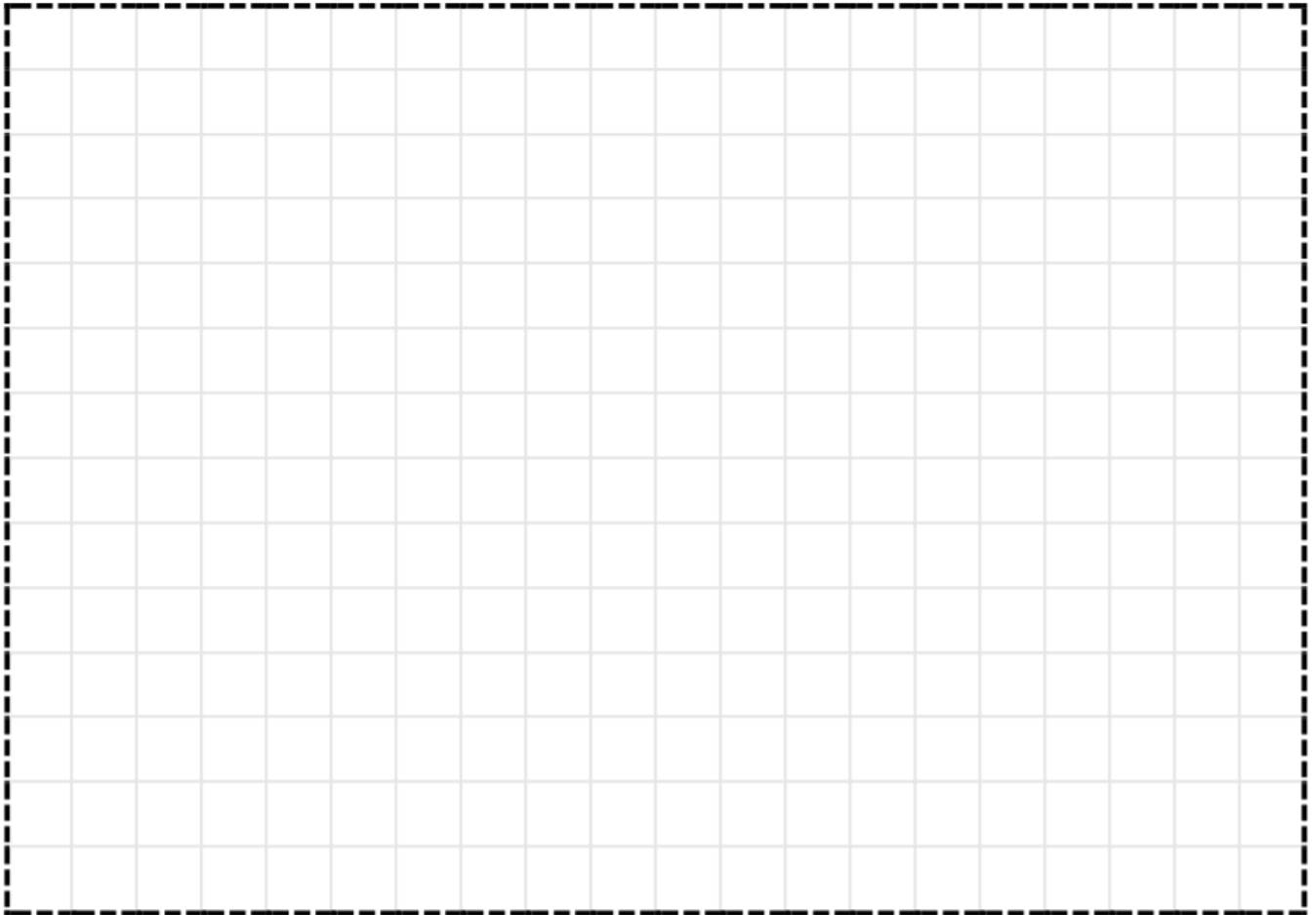
Kitchen: 15 sq. meters



Living Room: 20 sq. meters

Bedroom: 10 sq. meters

Each square represent 1 square meter.



Identify the animals from their patterns.





I did



I didn't

Question	Day 1	Day 2	Day 3	Day 4	Day 5
<p>Did I lose my temper today?</p> <p>Think: When did it happen? What happened before and after that?</p>					
<p>Did I have bad dreams?</p> <p>Think: What did I do during the day that day? When did I have my last meal?</p>					

B D A

A B C D

A A C C B B

A



Snap your fingers.

B



Clap your hands.

C



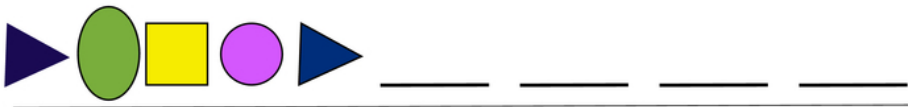
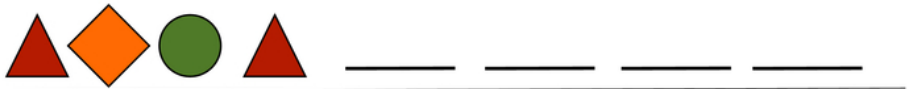
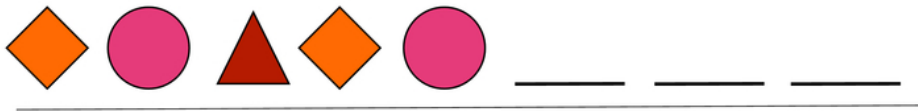
Stomp your feet.

D



Tap your thighs.

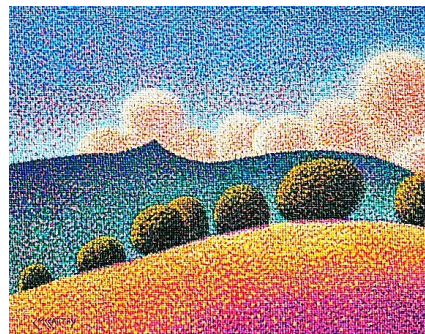
Finish the following patterns.



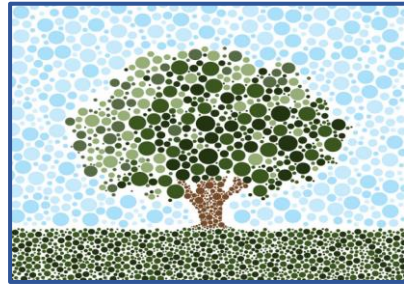
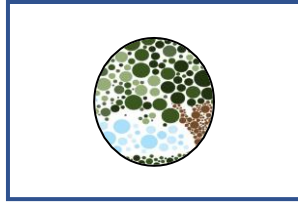
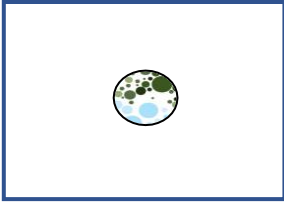
Zooming In



Pointilism



Zooming Out



Day 4

What comes next in these patterns?

A A B A A B _____ , _____ , _____ , _____

K Z L K Z L K Z L _____ , _____ , _____

S S D A S S D A _____ , _____ , _____ , _____

1 0 1 0 1 0 1 _____ , _____ , _____ , _____

2 4 4 5 2 4 4 5 _____ , _____ , _____ , _____

6 12 18 24 30 36 _____ , _____ , _____ , _____

Number Sequences

1 3 5 7 ...

- What number comes next?
- How do you know this?

3 6 9 12 _____

9 18 27 36 _____

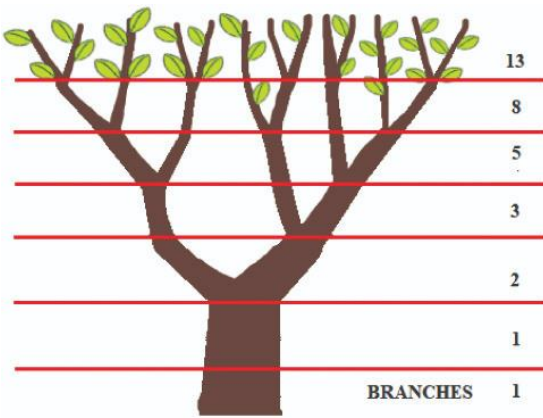
Fibonacci Sequence

0 1 1 2 3 5 8 ...

In this sequence, each number is the sum of the two numbers before it. What are the next 3 numbers?

Observe the Fibonacci Sequence in nature

Tree Branches



Flower Petals



1 Petal



3 Petals



5 Petals



8 Petals



13 Petals

Day 5

Paul, The Pattern Detective



Paul loves searching for patterns. "I am going to be a pattern detective today! Let's go find patterns!" said Paul.

Paul found a pattern hanging on the tree. It is called a hive and bees live in it. It is made up of the hexagons (a shape with 6 equal sides) stuck to each other.

Draw a hexagon.





Before going inside the house, he notices that the bricks of house make a pattern.

What is the shape of the brick?

Inside the house, Paul saw a pattern on the carpet.

Draw your own carpet pattern.



He went to the kitchen and saw a pattern on the table.
"What is this fruit?" Paul asked his Mom. "It is a _____," she said.

Draw 2 patterns you see in other fruits.

The next day at school, he told his friends all about the patterns he found.

"Join me today! Let's all be pattern detectives!" said Paul.

