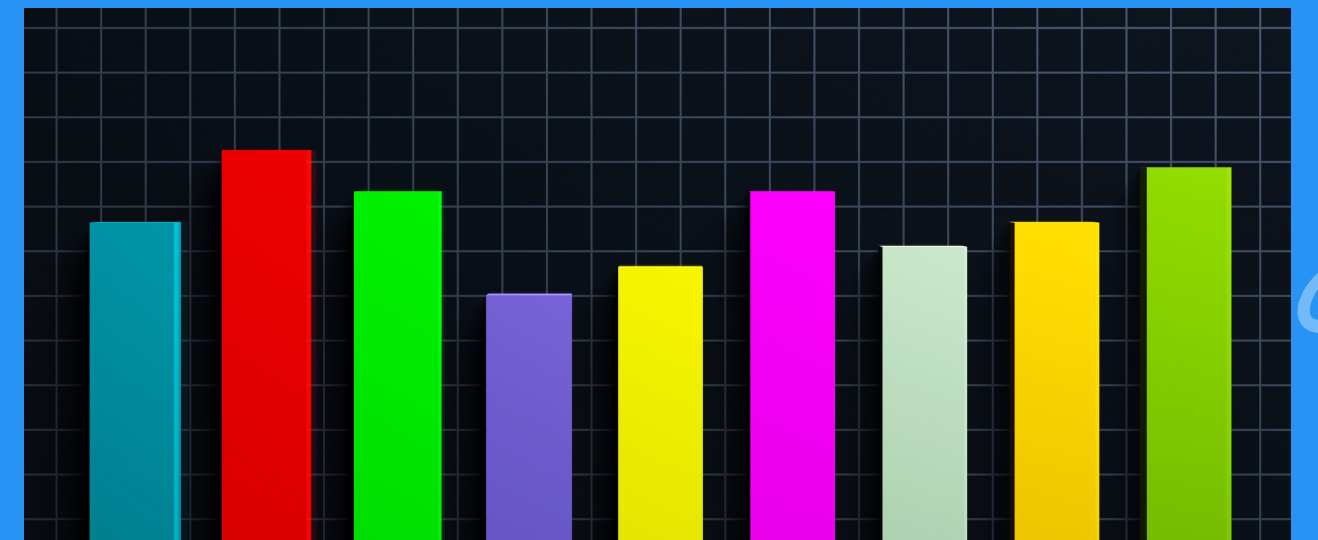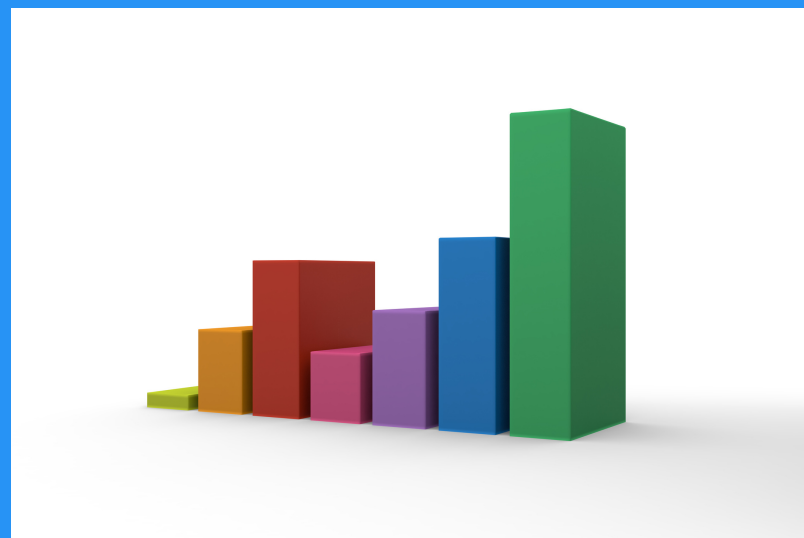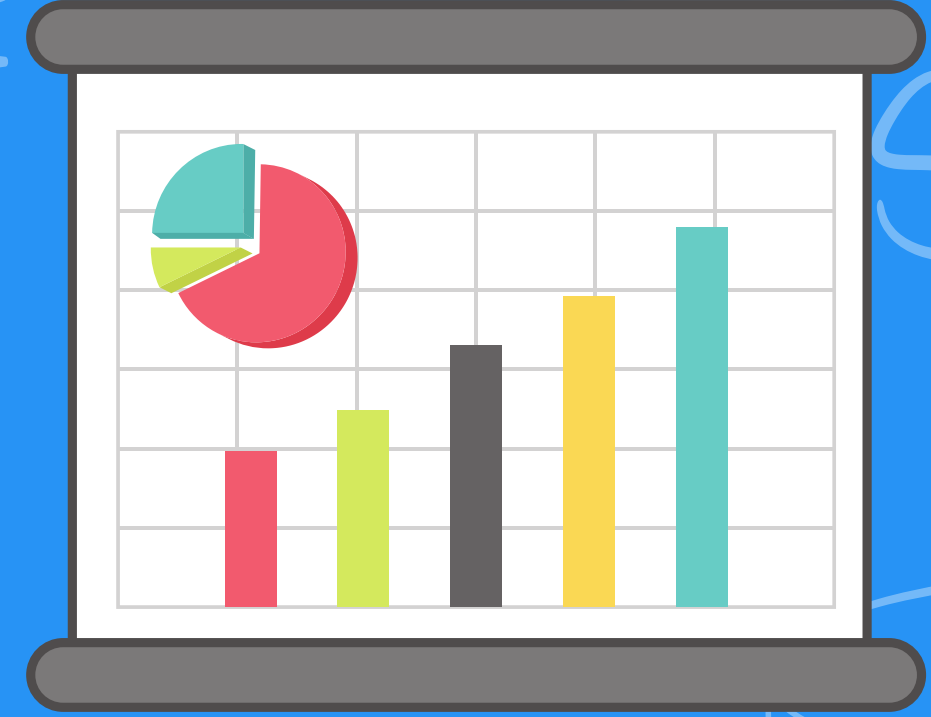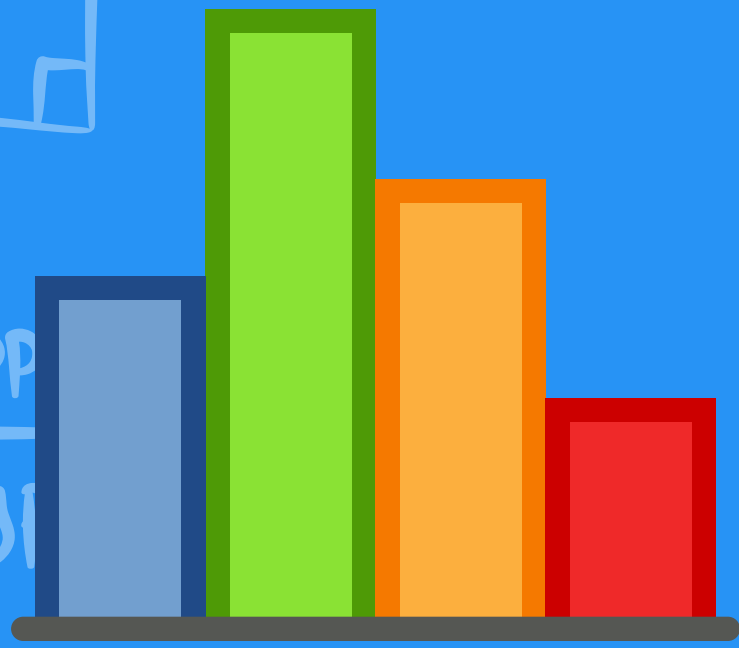# Family Maths Games Afternoon

# What is the answer

FOR PARENTS: sometimes the students can be given the answer to a problem and need to find out how to get to the answer. When given these problems students can find multiple ways to get to the answer. Students can use different materials to find the answer out. Eg. drawing, counters, blocks
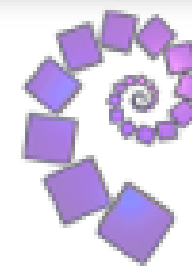
ASK: how did you get the answer? Can you find another way to find the answer? What did you use to get the answer?

# What is the answer?
## How to Play

1. Read the problem.
2. think about how you could solve the problem.
3. Correctly answer the problem.
4. find more than one answer for this problem before you move onto the next activity.
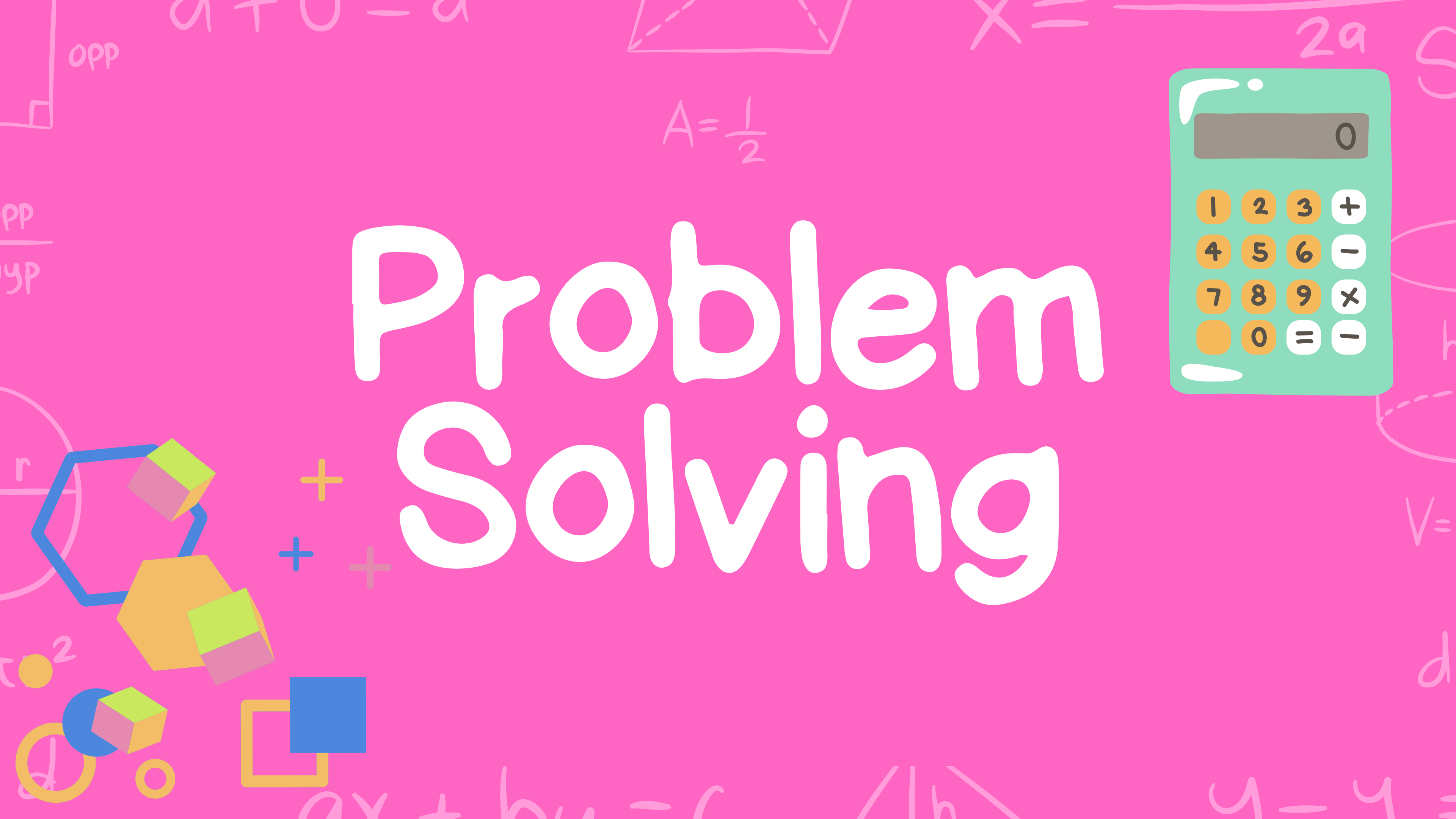
# Noah

Noah saw 12 legs walk by into the Ark.

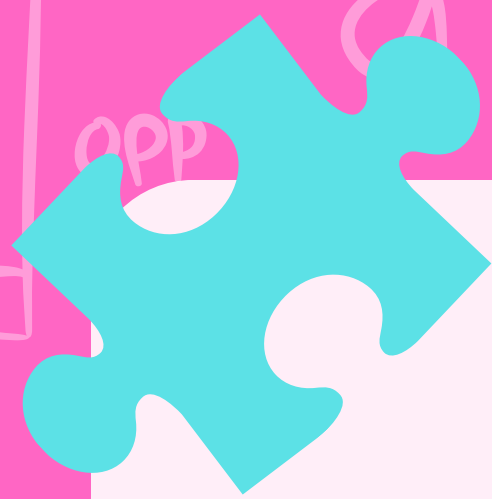How many creatures could he have seen?

How many different answers can you find?

# Problem Solving

# Reasoning and Problem Solving

**For parents:** *In real life we must solve daily mathematic challenges. The journey can be more important than the answer. Students need be resilient, persistent and to value the learning that occurs with trial and error*.
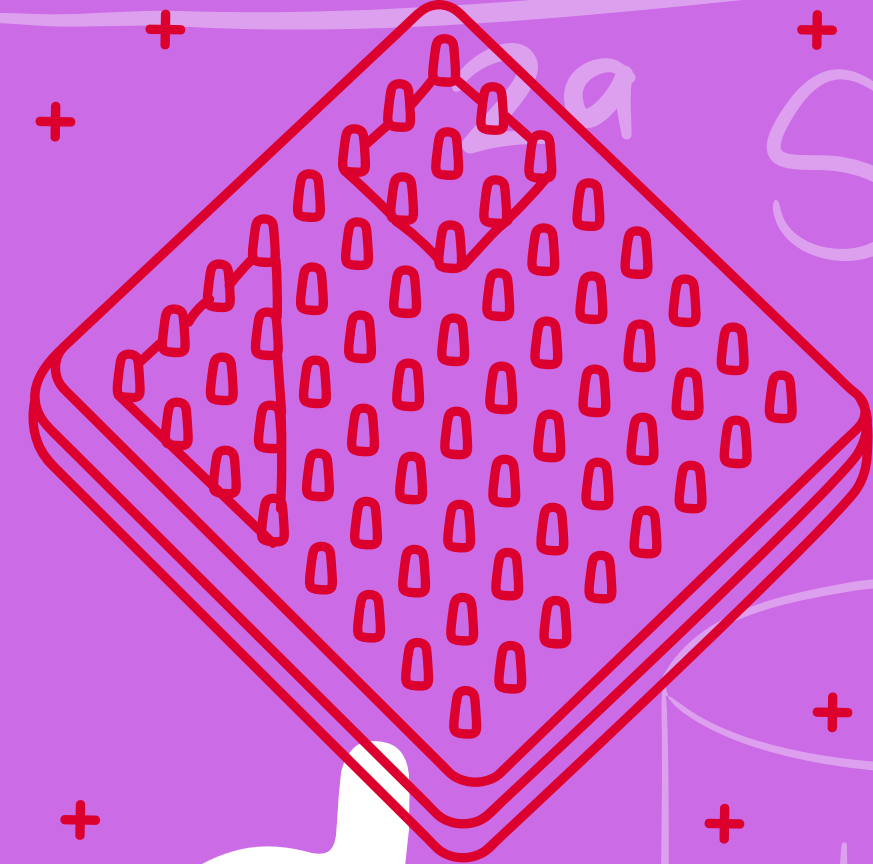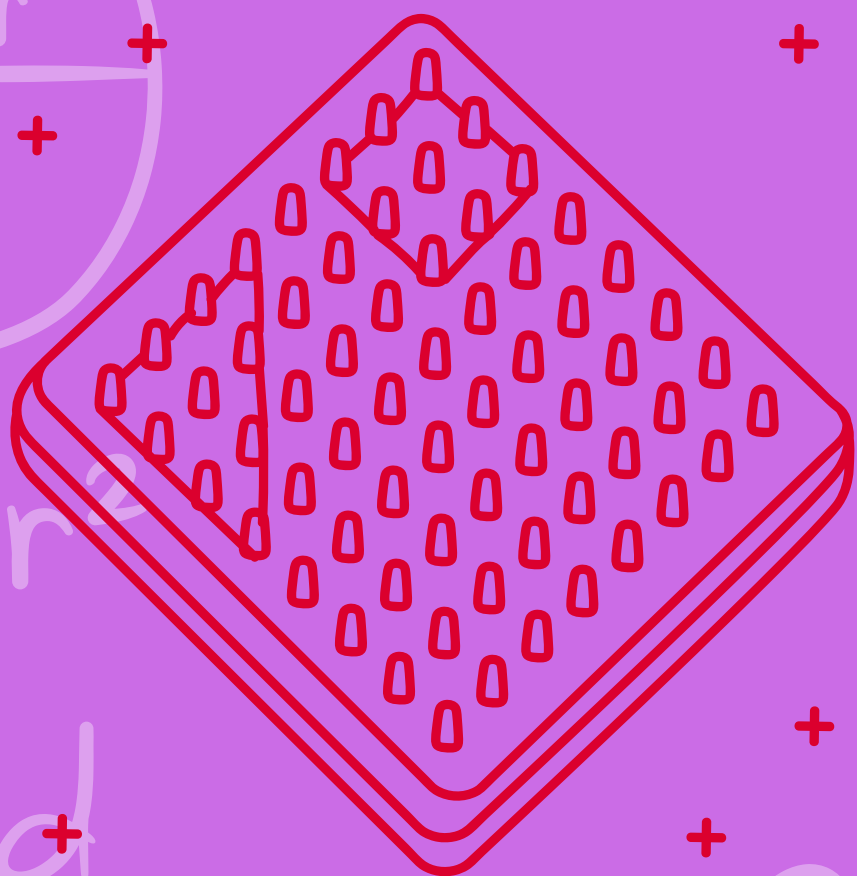
**Ask:** What could you do to make your thinking visible? Can you make a plan? Draw the problem? Make a list? Use counters or models? What about a table or diagram? Maybe try acting it out?
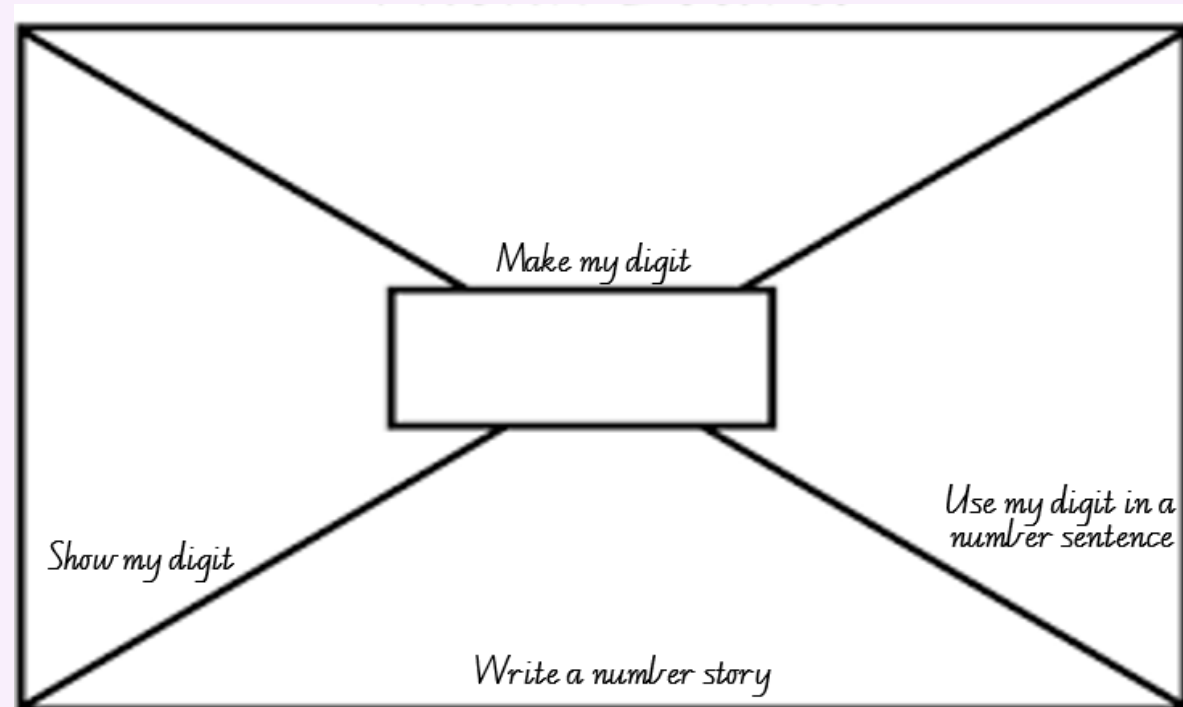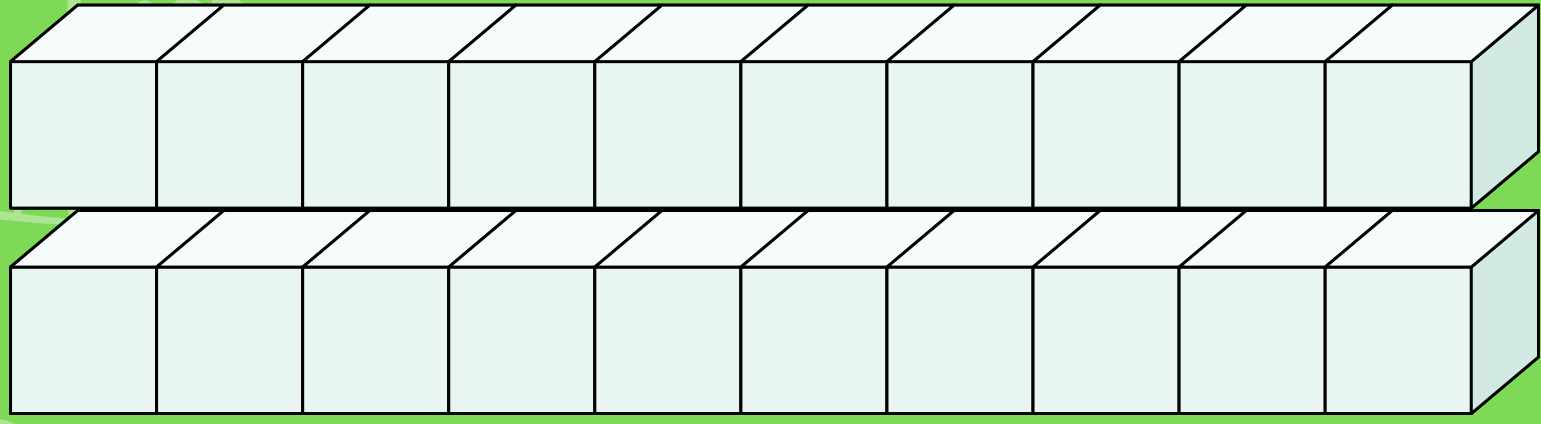
## Now have a go!

# Think Board

# Make a think board using a

- 2 digit number
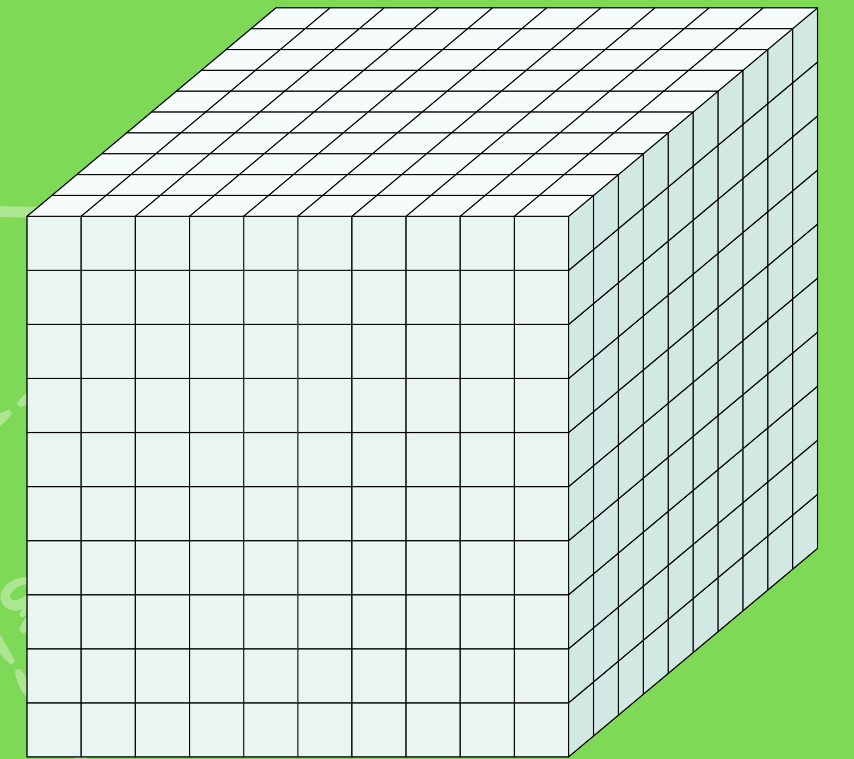- 3 digit number
- 6 digit number
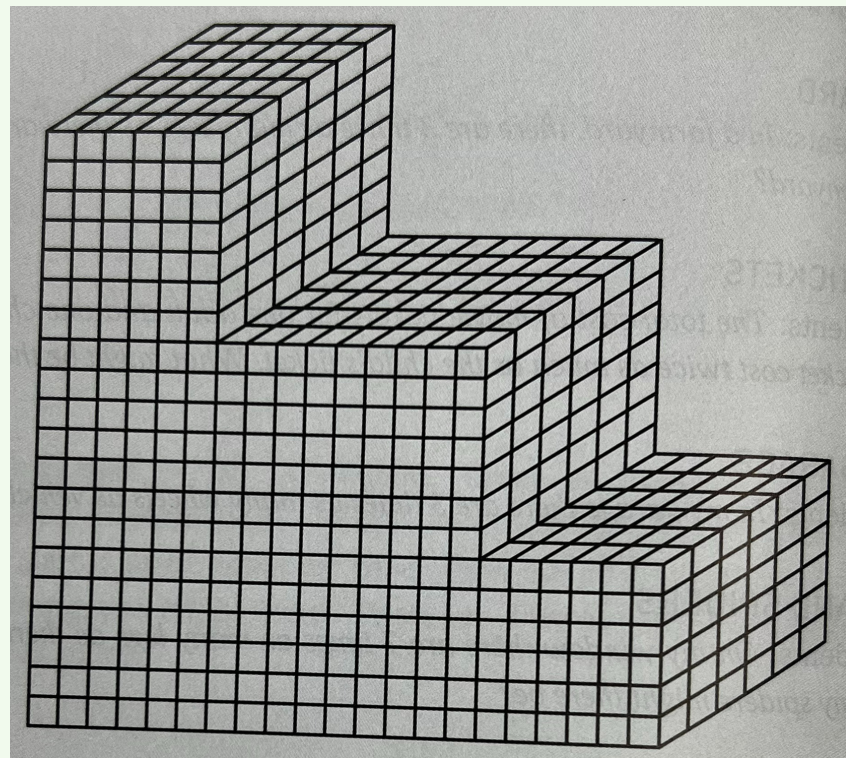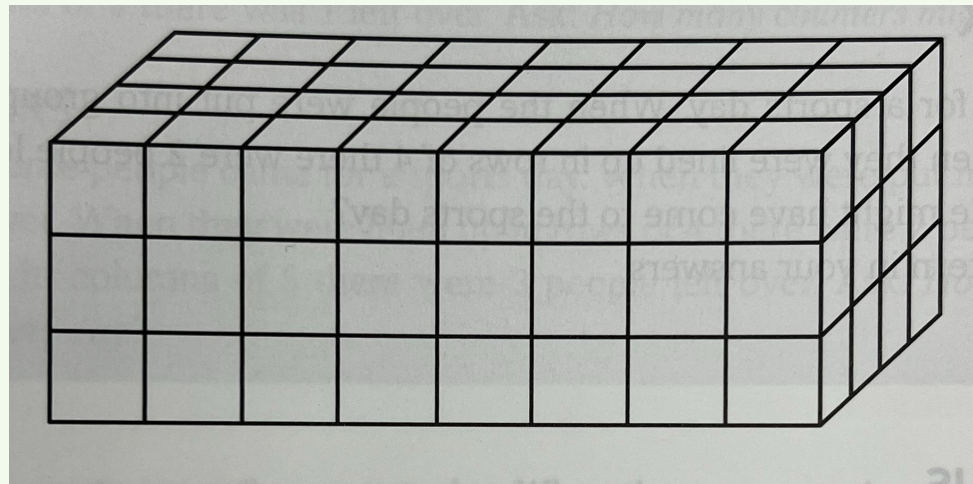


# Thinking Questions

- **How can I make my digit?**
  Tens Frames, MAB, Tallies

- **How can I show my digit?**
  Pictures and Arrays

- **How can I write a number sentence using my digit?**
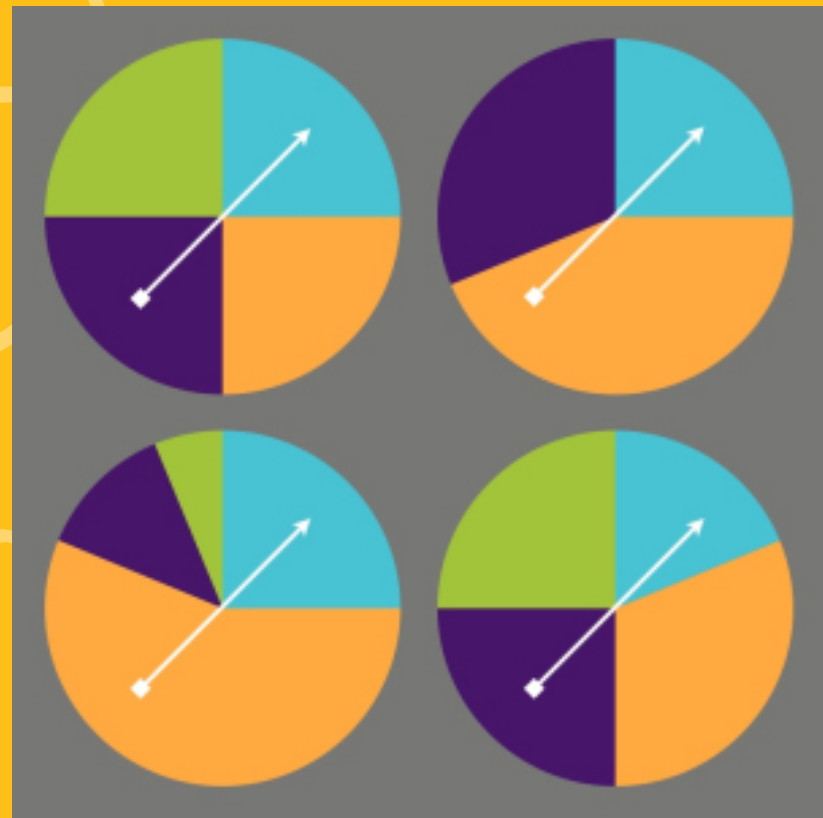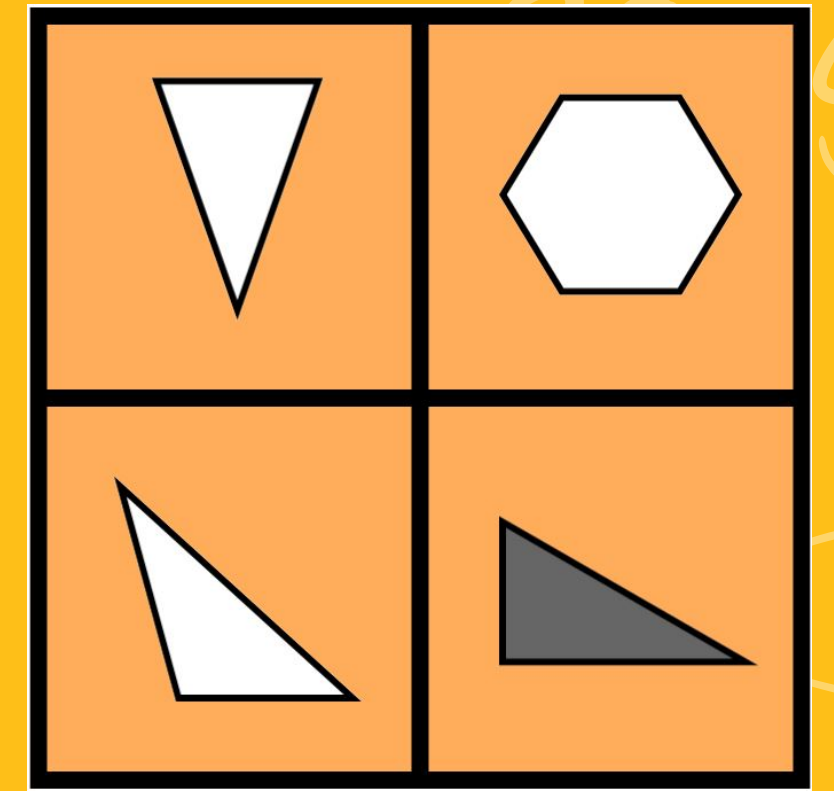
- **How can I write a number story?**

# Extended Arrays
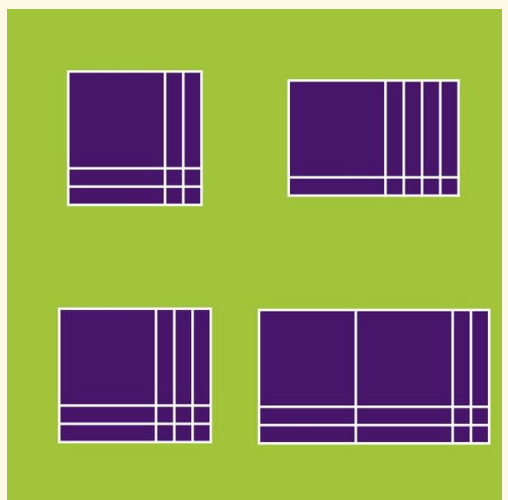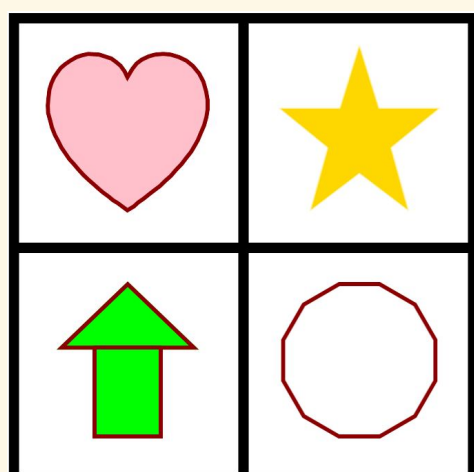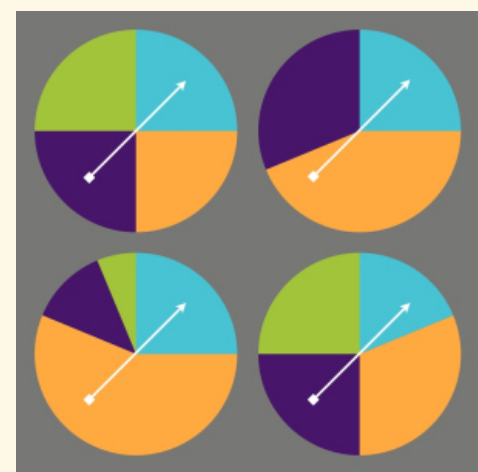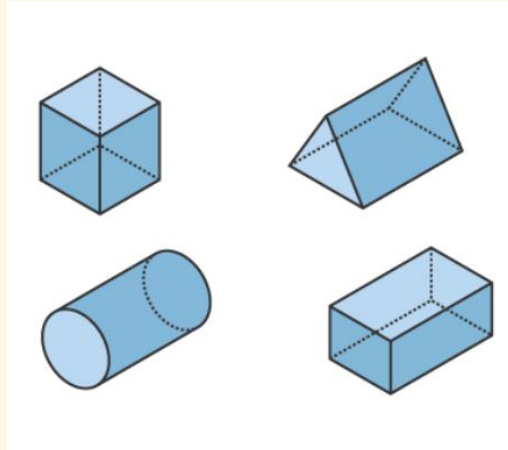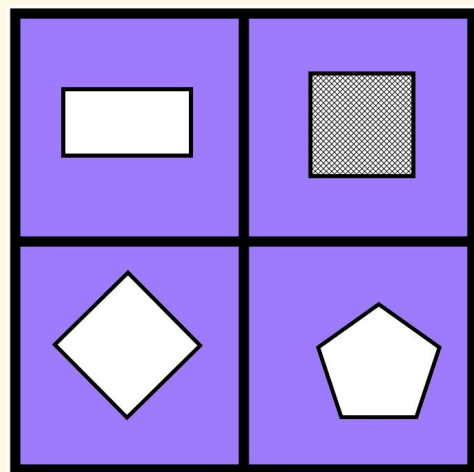
# Can you calculate the area of the shape?





# Thinking Questions

- How many ways can you find the area of your shape?
- Which method is the most efficient?
- What strategies could you use to calculate the number of cubes?

Odd One Out

# Find a reason why each shape does not belong.
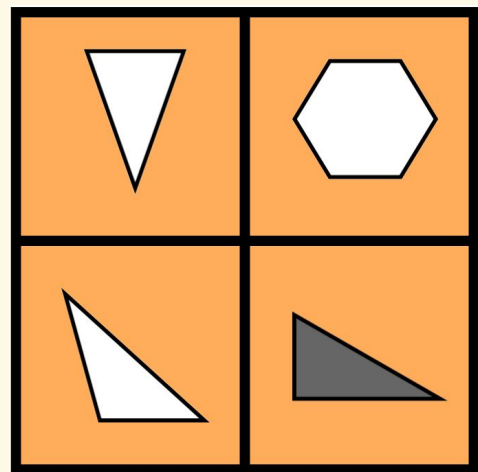


# Thinking Questions

- **What do you notice about each of the shapes?**
- **What similarities or differences they have?**
- **Can you find a reason for each shape to be the 'odd one out'?**
- **Can you justify your thinking to someone else?**

# Estimation Station

# Estimation is a Skill for Life.

As you walk around and live your life, imagine if you could easily estimate:

- how much a bill will be,
- which item is the best value for money
- the size, areas and angles of things

Also, it would be great if you could quickly guess how many people are in a room, how many cars in the street, how many boxes on the shelf, or even how many seagulls on the beach.

We are not talking exact answers here, but answers that are good enough for your life.

Exact vs Estimate