F-2: REMOTE MATHS
EDITION 9

NUMBER PROBLEMS IN REAL WORLD CONTEXTS

Mathematical language: Add, addition, take away, subtraction, altogether, equals, many, more, less.

TASK 1: HOW MANY LEGS?

Watch this video reading of *How Many Legs* by Kes Gray https://www.youtube.com/watch?v=mCaM9yf2pJ8

- How many legs would there be at your dinner table tonight, include any pets you may have?
- Draw a picture and write a number sentence to match.

Extending prompt: Re-watch the story of *How Many Legs*. Work out how many legs there would be after the dog and chimpanzee arrived?

TASK 2: TABLES AND CHAIRS

At a cafe there were some tables with 6 legs and some chairs with 4 legs. When all of the legs were counted there was a total of 28 legs.

- How many chairs were there?
- How many tables were there?
- Draw a picture or create a model to show the solution.

TASK 3: CARLY'S MARBLES

Carly and her friends Paul and Jess had some marbles. Read these clues and draw a picture to work out how many marbles Carly had.

- Carly had two more marbles then Jess
- Carly had an odd number of marbles
- Carly has less than 10 marbles
- Jess and one less then Paul
- Paul had 4 marbles

Extending prompt: Write your own problem like this one and get a family member to solve it.
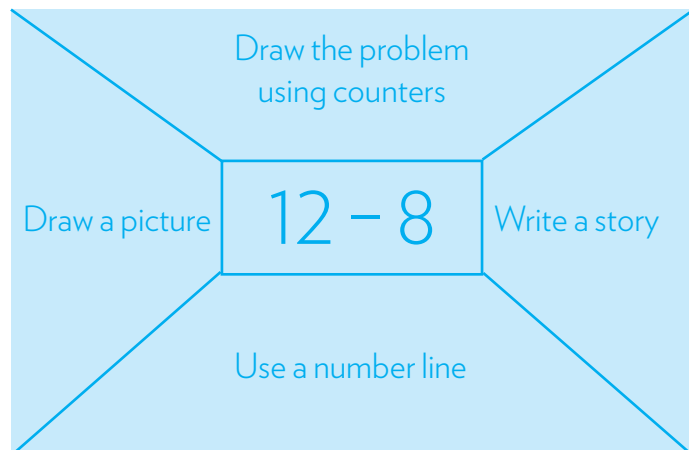
TASK 4: THINK BOARD

Use a think board to explore this number sentence

- 12 – 8
- Download think board on the MAV site.

Extending prompt: Try 32 – 18 using this think board.

	Draw the problem using counters	
Draw a picture	**12 – 8**	Write a story
	Use a number line	

TASK 5: SHOES

Ollie and Lil had 19 pairs of shoes between them. Lil had 3 more then Ollie. How many pairs did each of them have?

- Find at least 3 possibilities.

Extending prompt: What if Ollie, Lil and Alex had 26 pairs between them. How many shoes could they have each?

- None of them had the same number of shoes.
- Lil had three more pairs then Ollie

MAV would love your feedback on these resources. Click on the link or scan the QR code.

https://www.surveymonkey.com/r/MAHhomelearning

THE MATHEMATICAL ASSOCIATION OF VICTORIA

TRANSFORMATION: SLIDE, FLIP AND TURNS

Mathematical language: Flip, slide, turn, half, horizontal, diagonal, symmetry, rotate, mirror.

TASK 1: TANGRAM

Download and cut out this tangram template.

- What can you do with these pieces? What pictures can you make?
- What pieces can be made from joining other pieces together?
- How many different ways can you join pieces to make the largest triangle?

Supporting task: Try playing these tangram puzzles, https://www.abcya.com/games/tangrams https://nrich.maths.org/2487

TASK 2: SYMMETRY

When something is symmetrical, it is the same on both sides. A line can be drawn and the parts on each side could be folded to match. For example this top has one line of symmetry shown as the blue dotted line.

- Draw a line to show if and how these shapes are symmetrical.

Extending prompt: Create 6 of your own images, some that are symmetrical and others that are not. Ask a family member to find the line of symmetry.

Line of symmetry
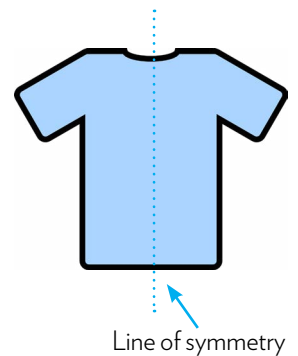
TASK 3: BUTTERFLIES

Butterfly wings are perfectly symmetrical. Their wings are exactly the same on each side.

- Draw or make your own butterfly and make each wing match perfectly
- You may like to use playdough, make a collage or draw a picture

THE MATHEMATICAL
ASSOCIATION OF VICTORIA

TASK 4: ROTATION TRANSFORMATIONS

These turtles are exactly the same but each one has been turned a quarter turn each time. This is called a rotation transformation.
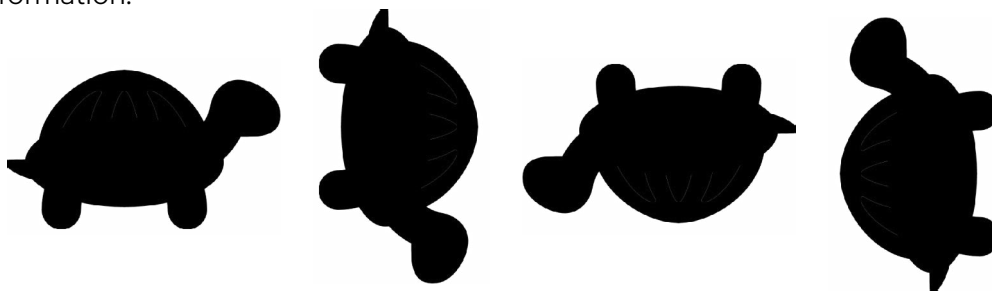
Create your own rotation transformations. To make your own version you might use

- Stamps and a stamp pad
- Cut out shapes
- Petals from a flower
- Simple drawings

TASK 5: TRANSFORMATION HUNT

Head into your garden, or a neighbourhood park. Take photos or draw picture of the things that you find that either show symmetry or rotational transformation.

MATHS APP OF THE WEEK: PATTERN SHAPES

Students use Pattern Shapes to explore geometry and fractions, create their own designs, or filling in outlines. As they work with shapes, students think about angles, investigate symmetry, and compose and decompose larger shapes.

https://apps.mathlearningcenter.org/pattern-shapes/

Look out for more tasks next week!