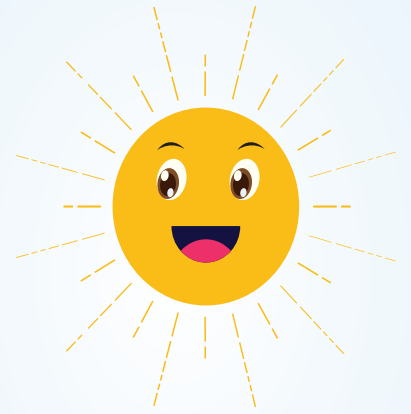


K-2



SUMMER CAMP 2020

THE SUMMER CAMP WORKBOOK

Reverse the Summer Math Learning Loss
with fun games and activities!

This book belongs to

A message from Manan Khurma, our first Cuemath teacher



Welcome to Cuemath's Summer Program - 2020!

This program has been carefully curated to:

1. Prevent the Summer Math Loss of up to 2.6 months* each year
2. Get a head start for the next academic year
3. Enhance the joy of mathematics through crafts, games and puzzles
4. This summer get exposed to the basics of coding

The summer camp experience has been designed as a blend of math puzzles, general activities, do-it-yourself games, coding activities relevant to each age group. Students are to engage with these tasks for 60 minutes after a regular 30-minute Cuemath class.

This book contains tasks for one month of summer engagement (that is 12 classes for 4 weeks, 3 times a week).

A comprehensive list of tasks is available on the next page. These tasks are of three types:

1. Daily Tasks:

One or two tasks designed for 30 minutes of engagement each day

2. Coding activities:

One task designed for 30 minutes of learning each day

3. Optional Tasks:

Eight tasks that can be taken by students who complete the day's daily tasks well within the 30 minutes available

As a parent, conduct these activities again at home with minor variations — you are only limited by your and your child's creativity. We have seen this to be a very powerful bonding experience between parents and their children.

We are certain that students will find this summer challenging, inspiring and full of learning! We are immensely grateful, as always, for your trust in Cuemath and hope you have a fun filled summer, experiencing math in a new light!

MANAN KHURMA

Founder & CEO, Cuemath

*As per a Harvard study conducted in 2016, <https://www.gse.harvard.edu/news/uk/16/06/summer-math-loss>

Daily Tasks

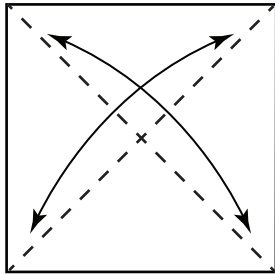
| Day | Task | Type | Page |
|-----|----------------------------|----------|------|
| 1 | Origami - Fortune Teller | Craft | 3 |
| 2 | Coloring the Picture | Activity | 4 |
| 3 | Decorate the Hat | Craft | 5 |
| 4 | Boggle | Activity | 6 |
| 4 | Join the Dots | Activity | 7 |
| 5 | Origami - Sail Boat | Craft | 8 |
| 6 | Tangrams | Puzzle | 9 |
| 7 | Color, Count, and Organise | Activity | 11 |
| 7 | Crossword | Puzzle | 12 |
| 8 | Sudoku | Puzzle | 13 |
| 9 | Tic-Tac-Toe | Game | 14 |
| 10 | Math Crossword | Puzzle | 15 |
| 10 | Spot the Difference | Activity | 16 |
| 11 | Word Hunt | Activity | 17 |
| 11 | Connect and Write | Activity | 18 |
| 12 | One of a Kind | Craft | 19 |

Optional Tasks

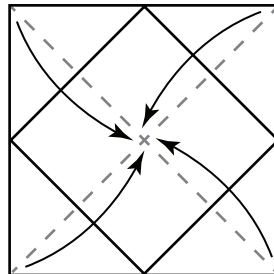
| No. | Task | Type | Page |
|-----|---------------------|----------|------|
| 1 | One of a Kind | Activity | 22 |
| 2 | Sudoku | Puzzle | 23 |
| 3 | Magic Square | Puzzle | 24 |
| 4 | Boggle | Activity | 25 |
| 5 | Matching Pair | Activity | 26 |
| 6 | Spot the Difference | Activity | 27 |
| 7 | Find the Way | Puzzle | 28 |
| 8 | Tangrams | Puzzle | 29 |

Today is Origami Day!

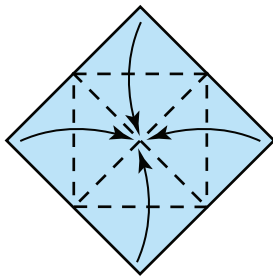
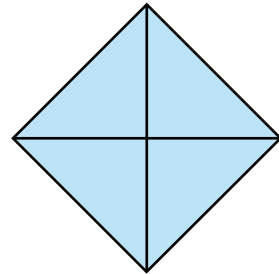
Ask your teacher for a craft paper. Make sure you closely follow the steps shown. Good luck!



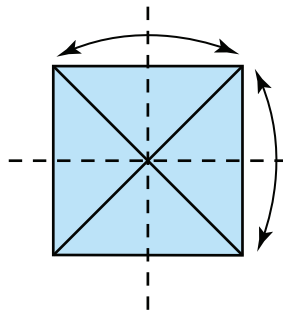
1. Start with the white side up.
Fold diagonally in both directions.



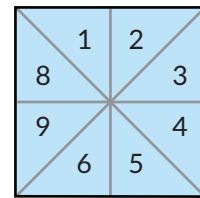
2. Fold all 4 corners each of them to the centre point.



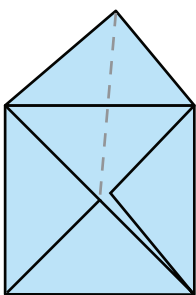
3. Turn over and again fold each corner into the centre point.



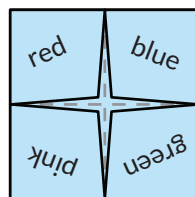
4. Fold in half along the folds shown. Do it both ways and open.



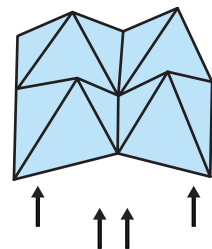
5. Number each segment from 1-8.



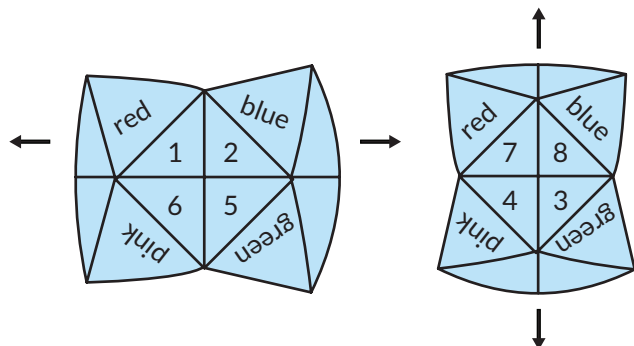
6. Open up each flap and write a line in each section. Below are some examples of fortunes you can write, but you can also make up your own.



7. Turn the model and write a colour on each of the flaps. Do it both ways and open.



8. Use your fingers to open it up.



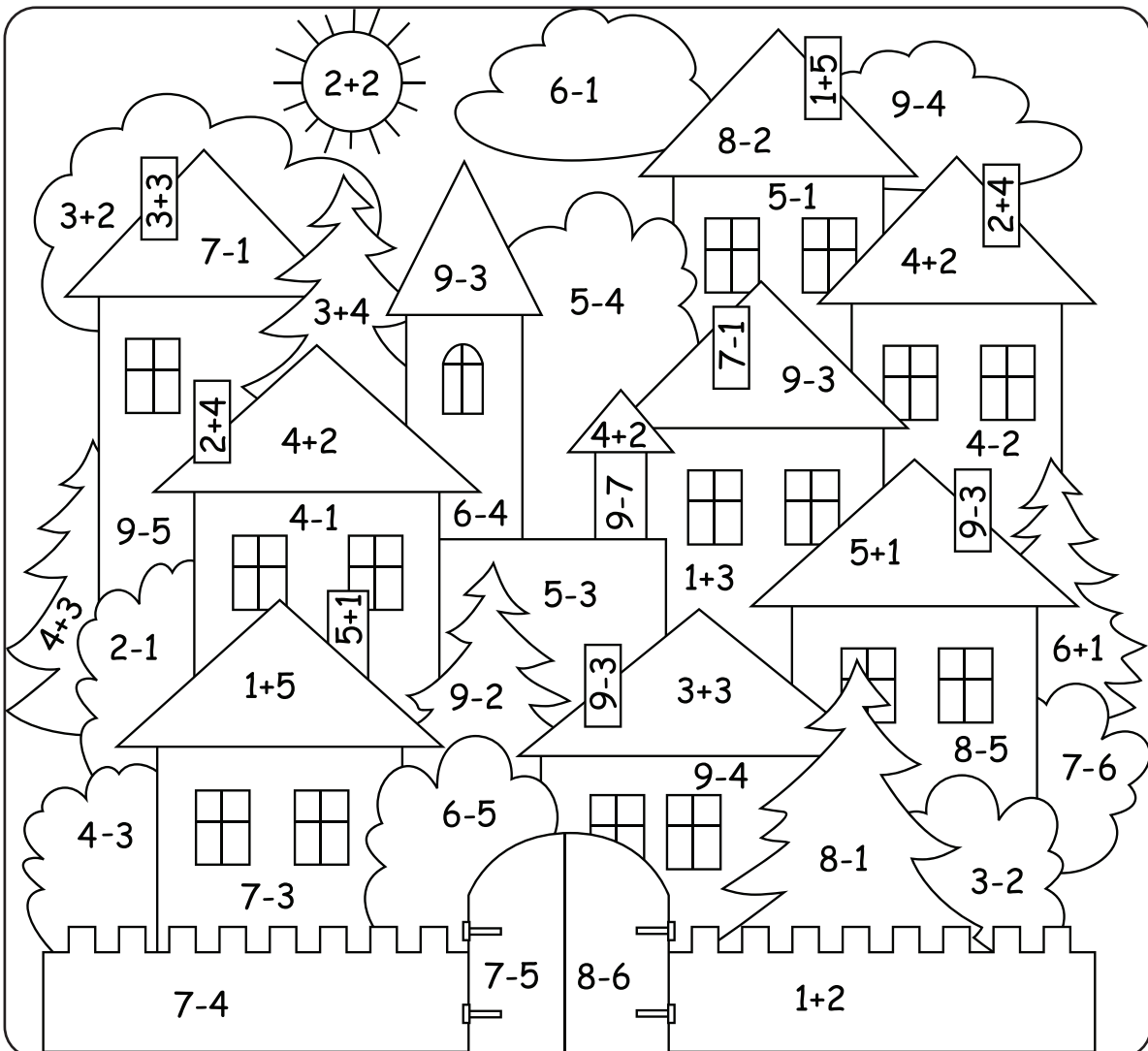
9. Here is how your fortune teller would look like.

- (a) You will get a sticker in your workbook.
 (b) You will get a chocolate today.
 (c) You will have very good luck today.
 (d) You will have many friends.
 (e) Do a dance today.
 (f) Give a compliment to your friend.
 (g) You will go to a party soon.
 (h) Help your friend.

Let's colour the picture.

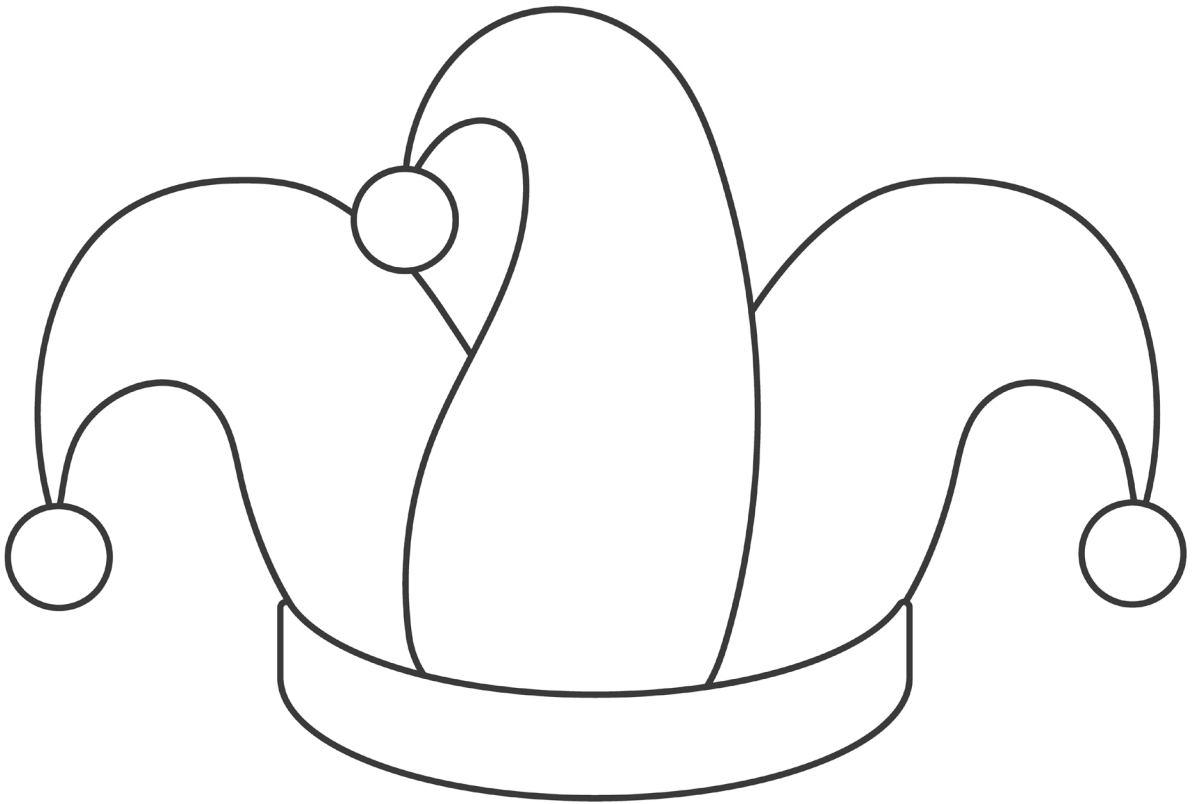
Add or subtract and colour as per the answer you get.

| Answer | Colour |
|--------|--------|
| 1 | Green |
| 2 | Brown |
| 3 | Violet |
| 4 | Yellow |
| 5 | Brown |
| 6 | Red |
| 7 | Green |



Instructions

1. You have to decorate the hat given.
2. Use pulses, some decorative material.
3. Feel free to also use colours.



Boggle is a game to test your word skills.

Steps:

- Make as many words as you can from the given table.
- Each letter should connect to the next letter.
- Each word must have 2 letters or more.
- Do not use a letter twice in the same word.
- One word has been done for you as an example.

| | | | |
|---|---|---|---|
| S | E | D | O |
| R | T | K | I |
| E | I | S | G |
| S | E | K | O |

Ask her to help you get your final score and result.
 Show all the words you found to your teacher.

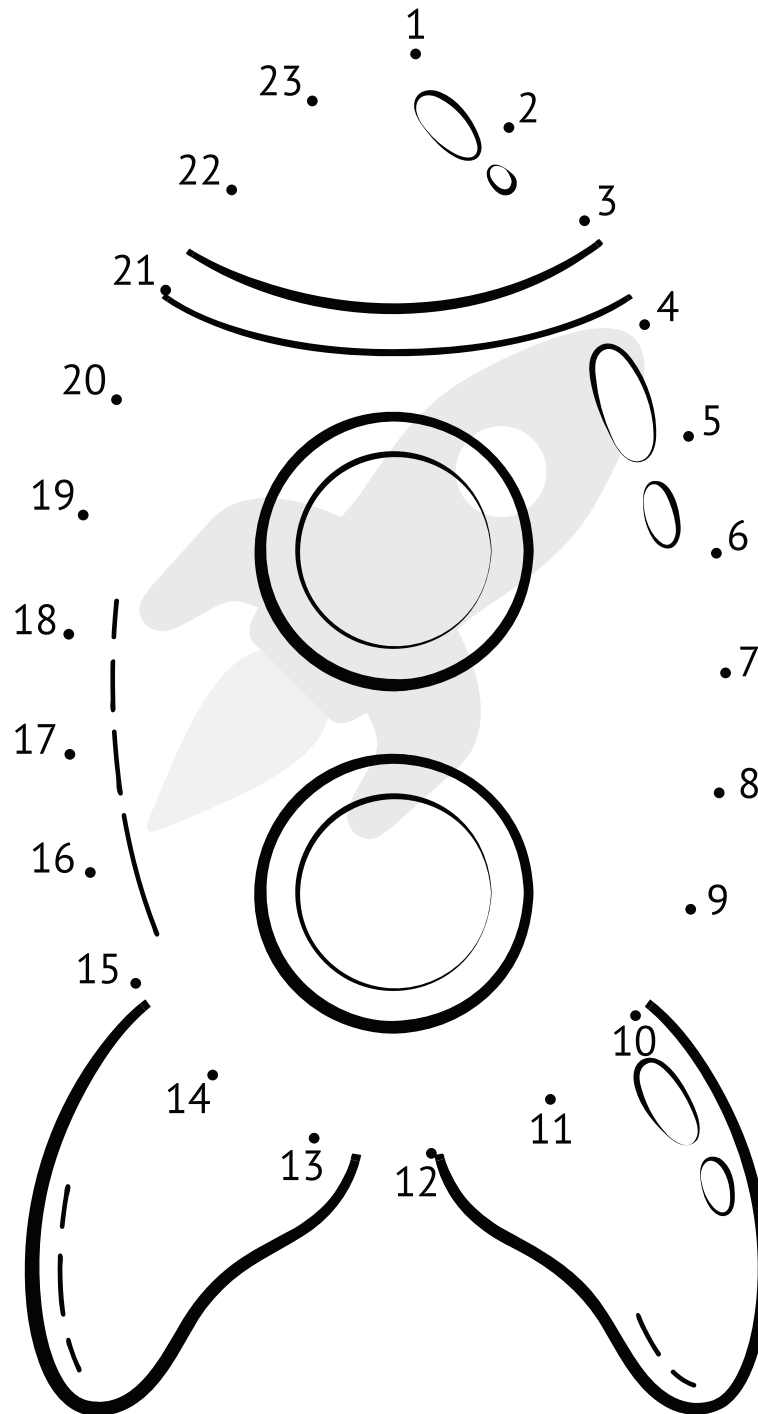
POINTS PER WORD

| No. of Letters | Points |
|----------------|--------|
| 2 | 1 |
| 3 | 2 |
| 4 | 3 |
| 5 | 4 |

RESULT

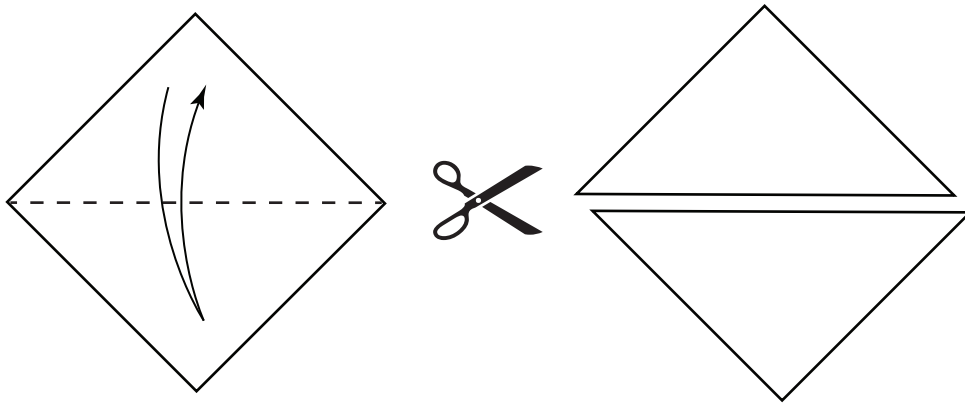
| Score | Outcome |
|-------|-----------|
| 11-30 | Good |
| 31-50 | Excellent |
| 51-70 | Master |
| 70+ | Champion |

Join the dots and then colour the picture.

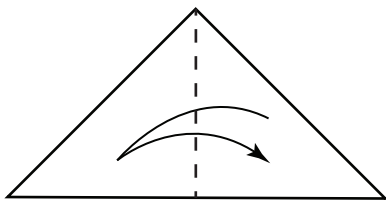


Today is another Origami Day!

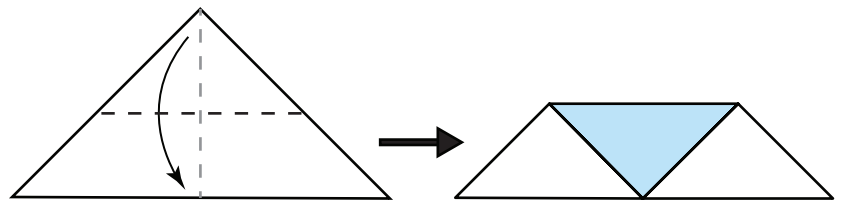
Use a craft paper. Make sure you closely follow the steps shown. Good luck!



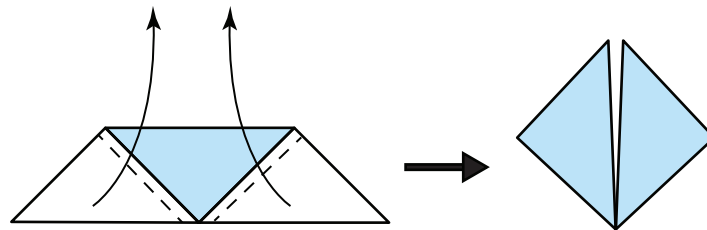
1. Start with a square piece of paper, blank side up. Fold the paper in half, then open. Cut the paper in half along this fold.



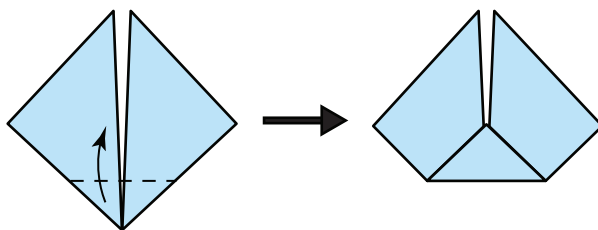
2. Fold the triangle in half as shown.



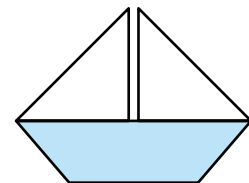
3. Fold the top corner downwards to meet the bottom edge of the triangle



4. Fold the two bottom corners upwards to meet together in the middle.



5. Fold the bottom corner up to the centre of the model. Then turn the model over.

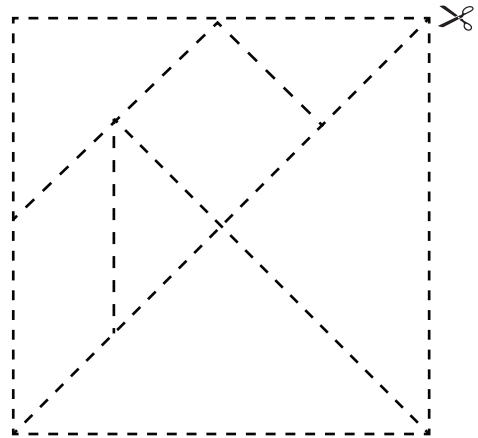


6. Your sailboat is ready.

A tangram is a puzzle consisting of a square cut into pieces which can be arranged to make different shapes.

Steps:

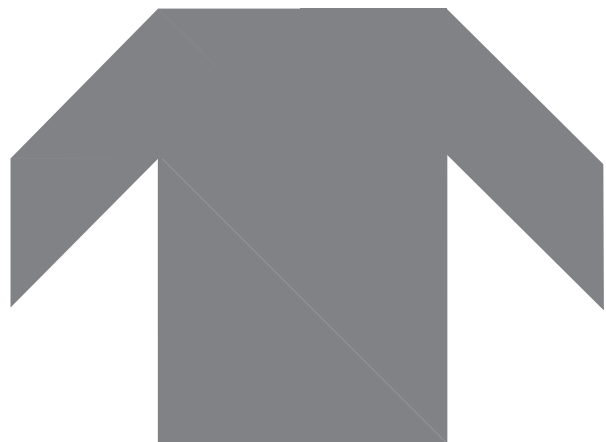
- Cut out the square below.
- From the square, cut out the shapes (along the dotted lines) to get your tangram pieces.
- Using the pieces, form each shape below and show each one to your teacher.



Remember, you need to use **ALL** pieces to form each object shown!



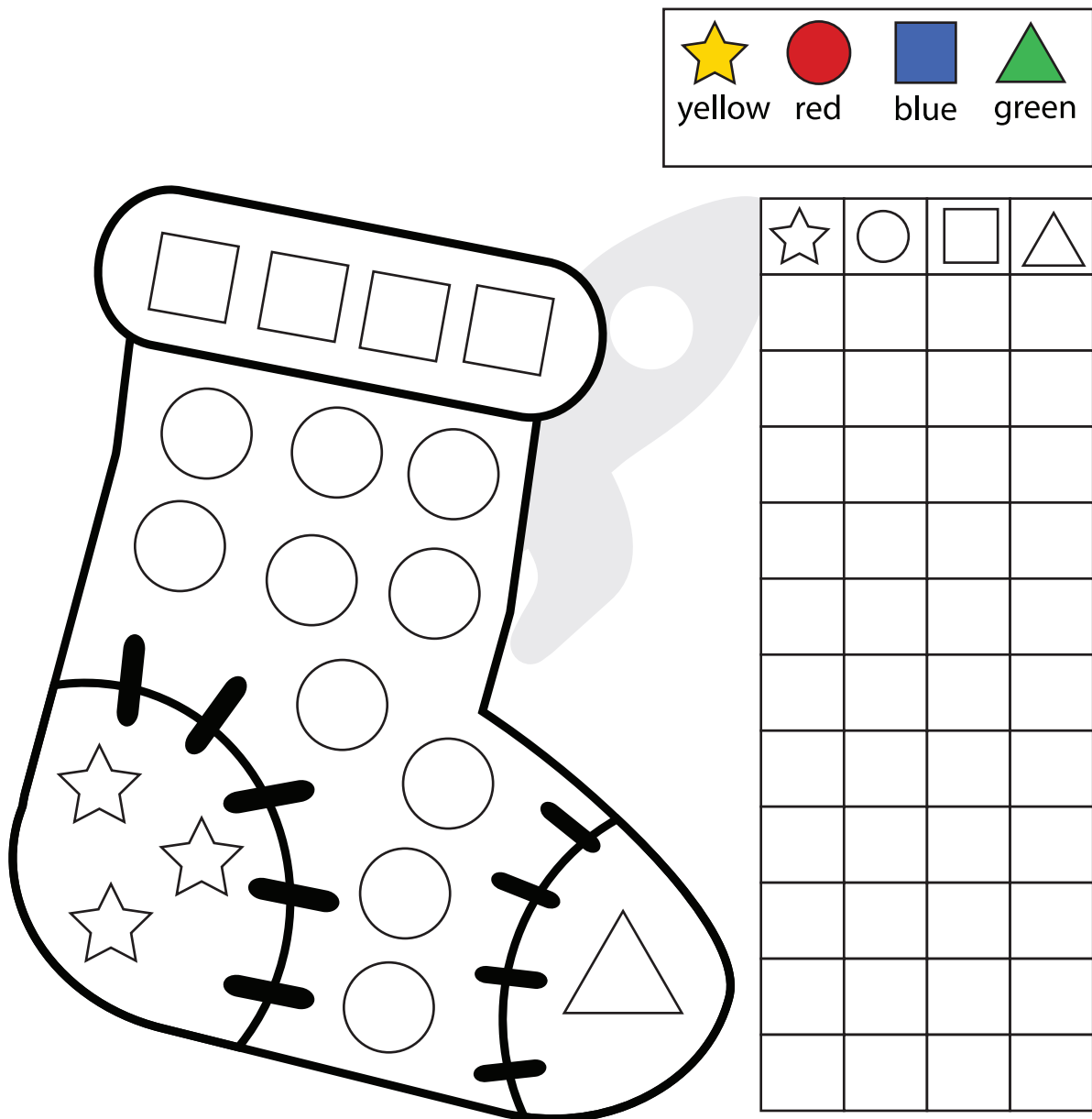
Letter C



Shirt





Page blank
(for previous page cutting activity)

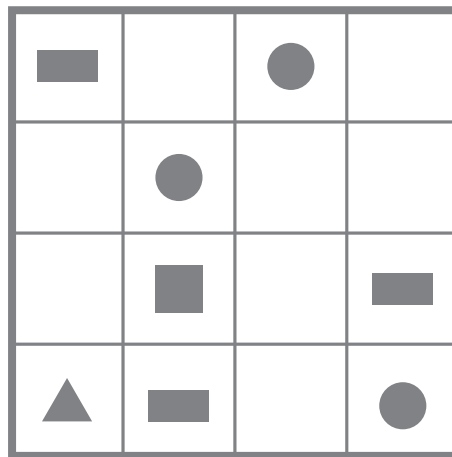
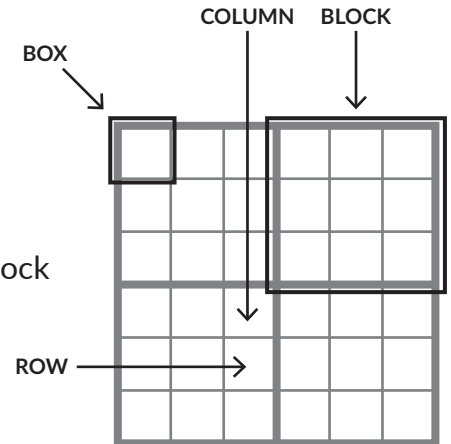
1. Colour the shapes as as mentioned in the table.
2. Count the number of each shape in the picture given.
3. Then colour the correct box for the count of each shape in the table given.



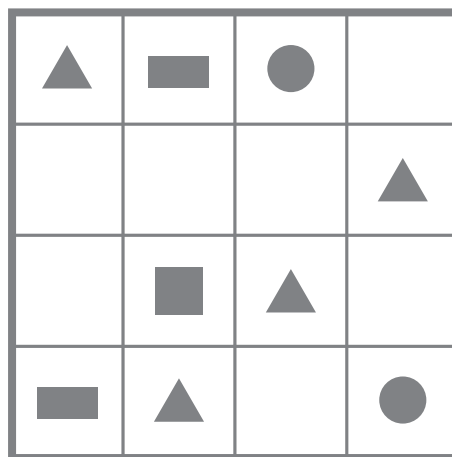
Sudoku is a popular game of numbers.

Rules:

- Fill all of the empty squares in the grid with a shape.
- The shapes are    
- Each shape can be used only once in a row, column or a block

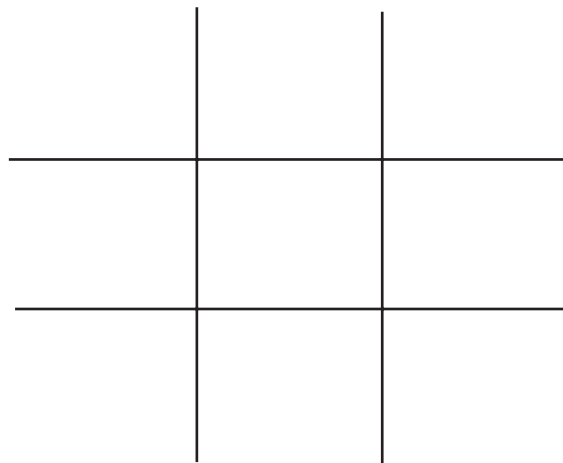
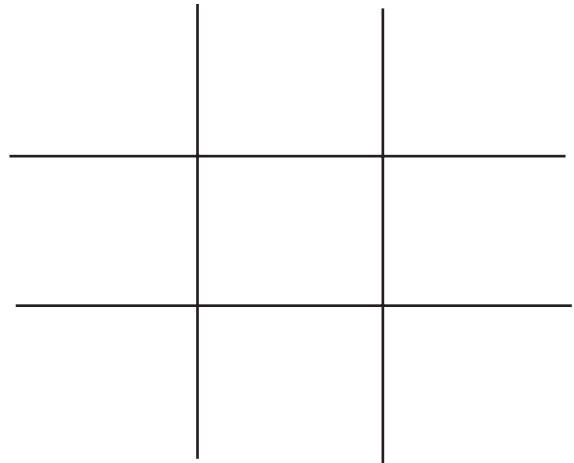
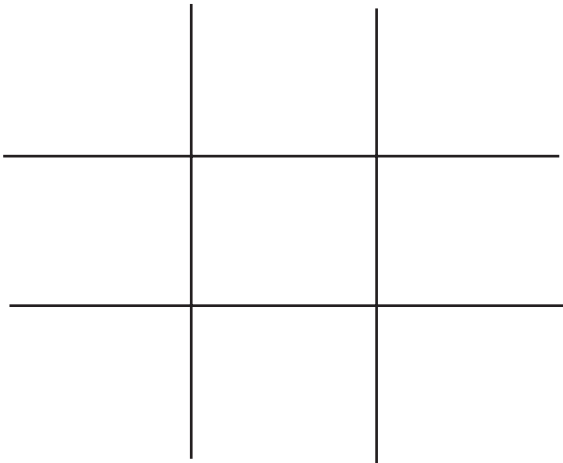


Puzzle 1

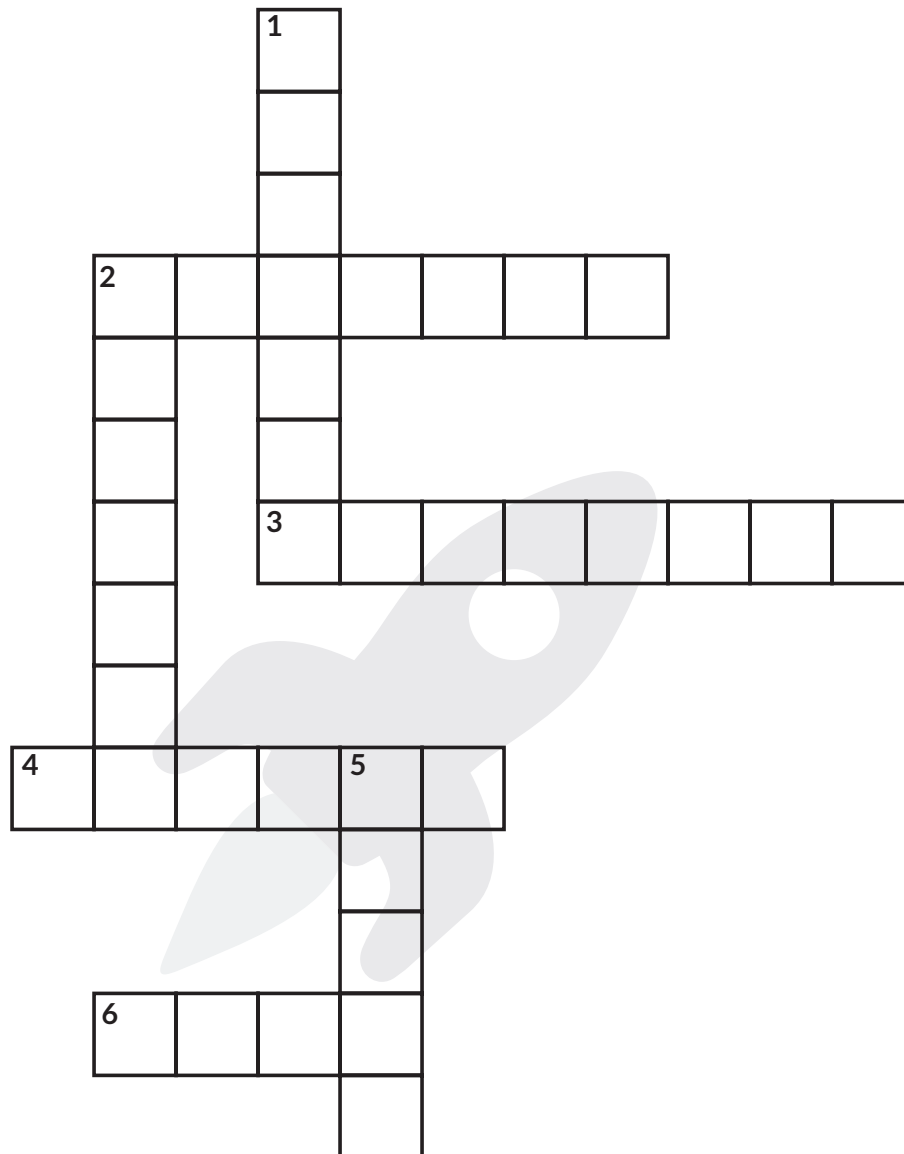


Puzzle 2

1. This is a two-player game. A player picks X or O as their mark.
2. The players take turns marking the spaces in a 3×3 grid with their mark.
3. The player who succeeds in placing three of their marks in a row (horizontal, vertical, or diagonal row) wins the game.
4. When all 9 squares are full, the game is over.
5. If no player has 3 marks in a row, the game ends in a tie.



Use the clues given below to fill in the crossword.

**ACROSS**

2 2 tens

3 $20 - 1$

4 Add 2 to 5

6 $9 - 4$ **DOWN**

1 The number between 15 and 17

2 $10 + 2$ 5 $18 - 9$

1. Can you find 5 differences between the two pictures?
2. Circle each difference you find in Picture 2!



PICTURE 1



PICTURE 2

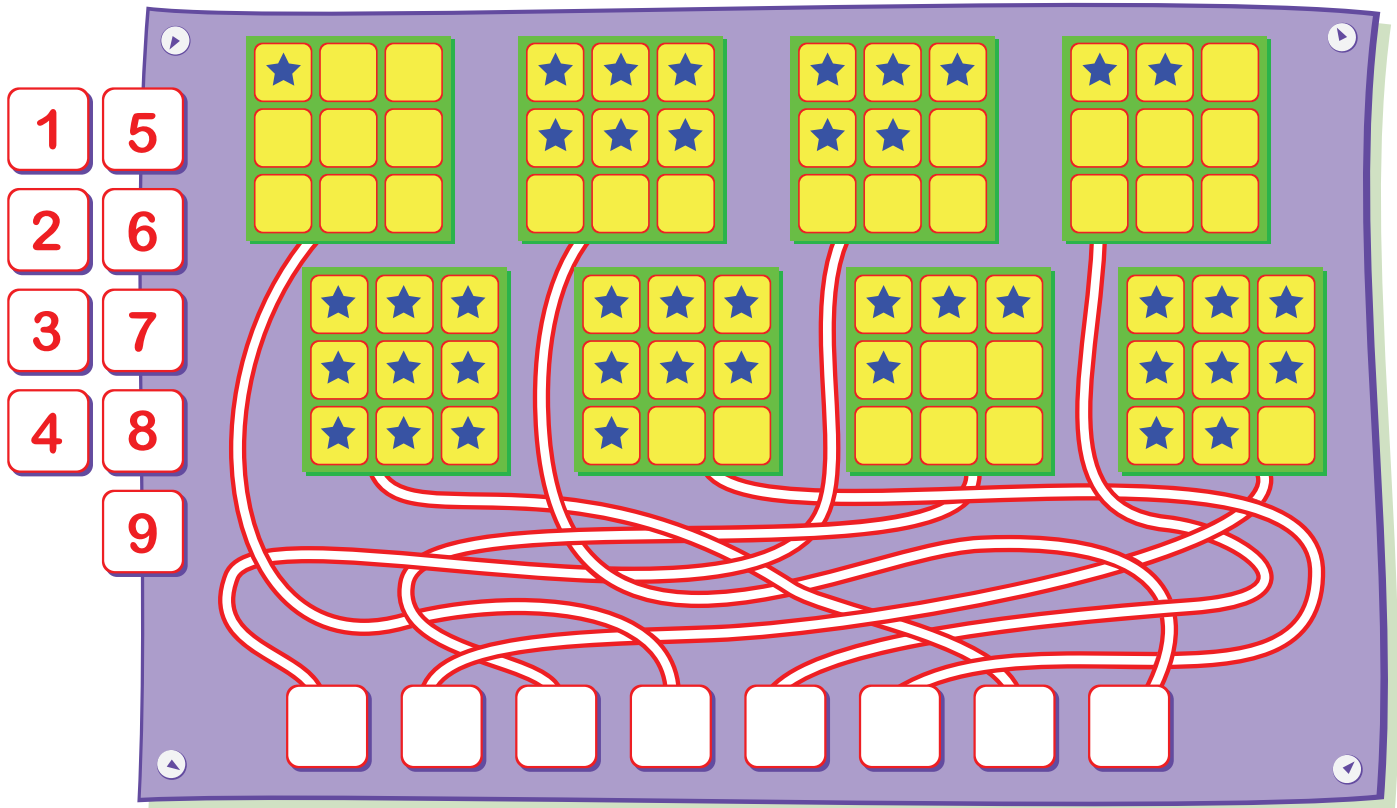
Circle the different words in the letter grid shown.

An example has been done for you.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| N | U | Y | R | E | E | D | S | K | A |
| E | R | D | F | R | P | Q | F | K | C |
| C | H | E | O | O | U | Y | Z | J | J |
| X | A | M | L | A | U | T | I | Y | D |
| Y | N | T | R | U | R | R | H | G | B |
| E | D | E | V | O | R | F | Z | X | E |
| N | S | D | F | N | T | L | N | F | I |
| O | P | T | A | L | L | H | R | N | U |
| M | A | K | C | O | L | C | E | W | D |
| X | N | H | W | S | L | W | D | L | D |

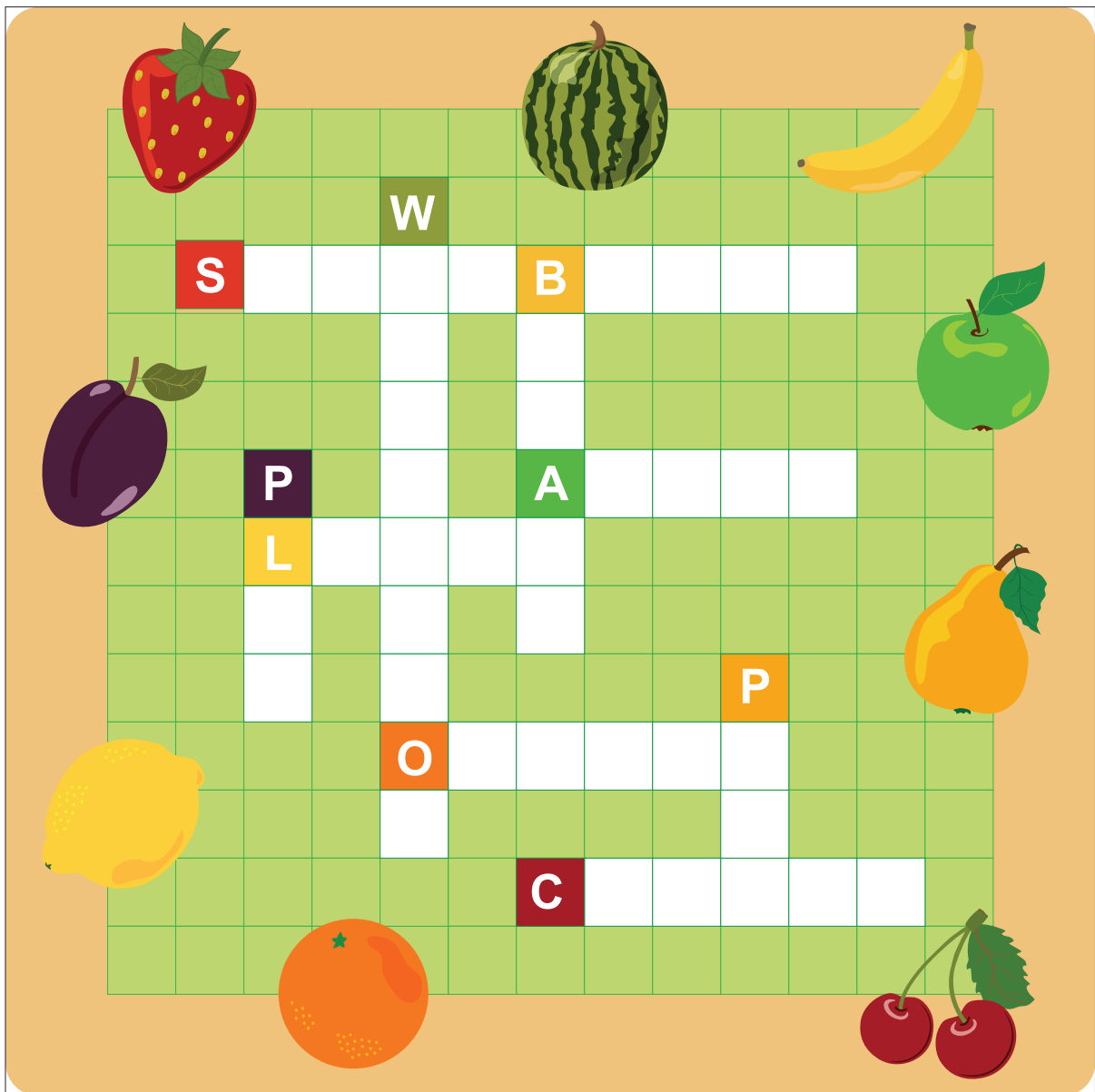
| WORDS TO FIND | | |
|-------------------------|------------------------|-------------------------|
| CLOCK MONEY RULER | FOUR MORE SQUARE | HANDSPAN RED TALL |

Write the number of stars in the boxes they connect to.

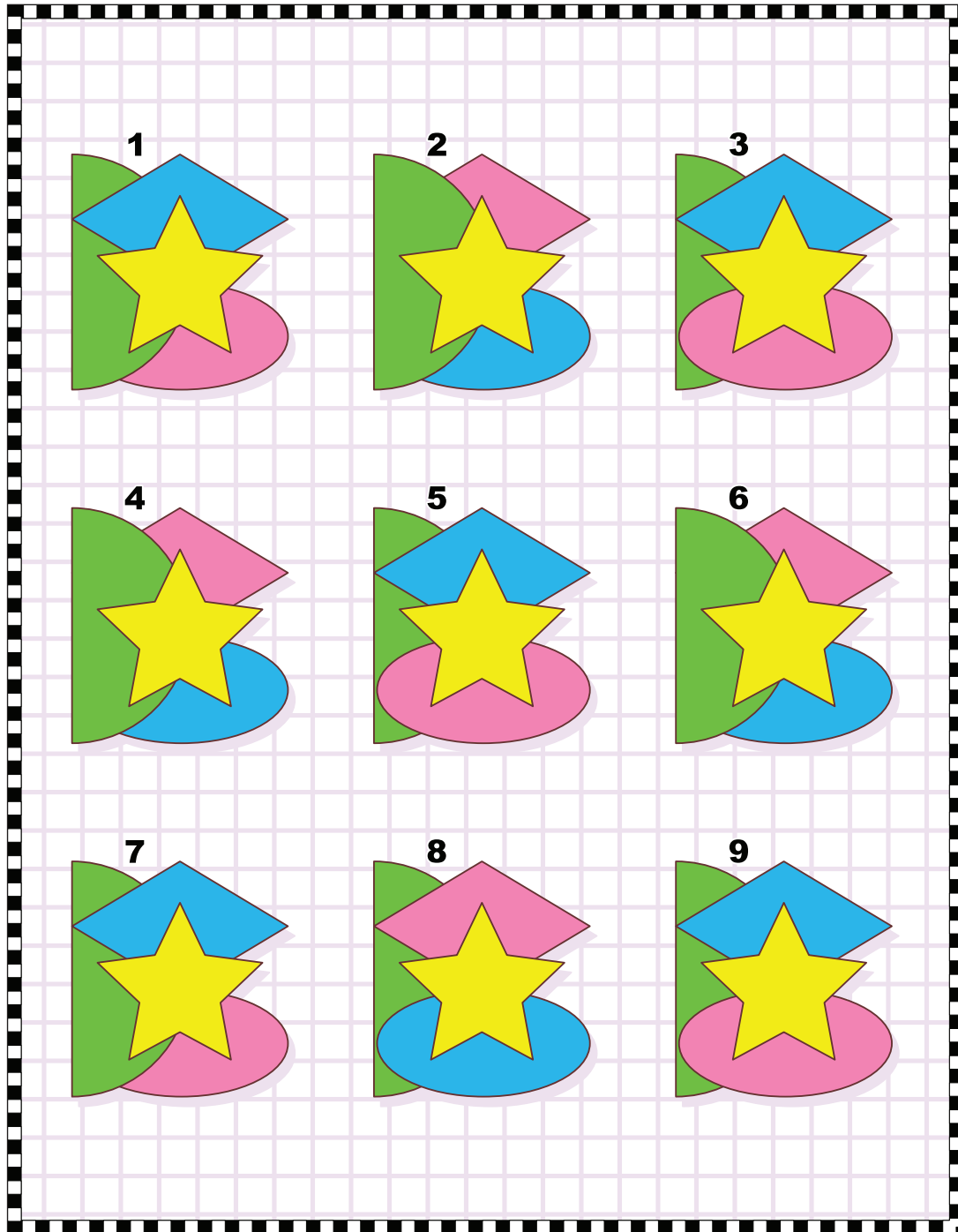


Rules:

1. Identify the fruits.
2. Fill their names in the empty boxes using the first letter of their names.

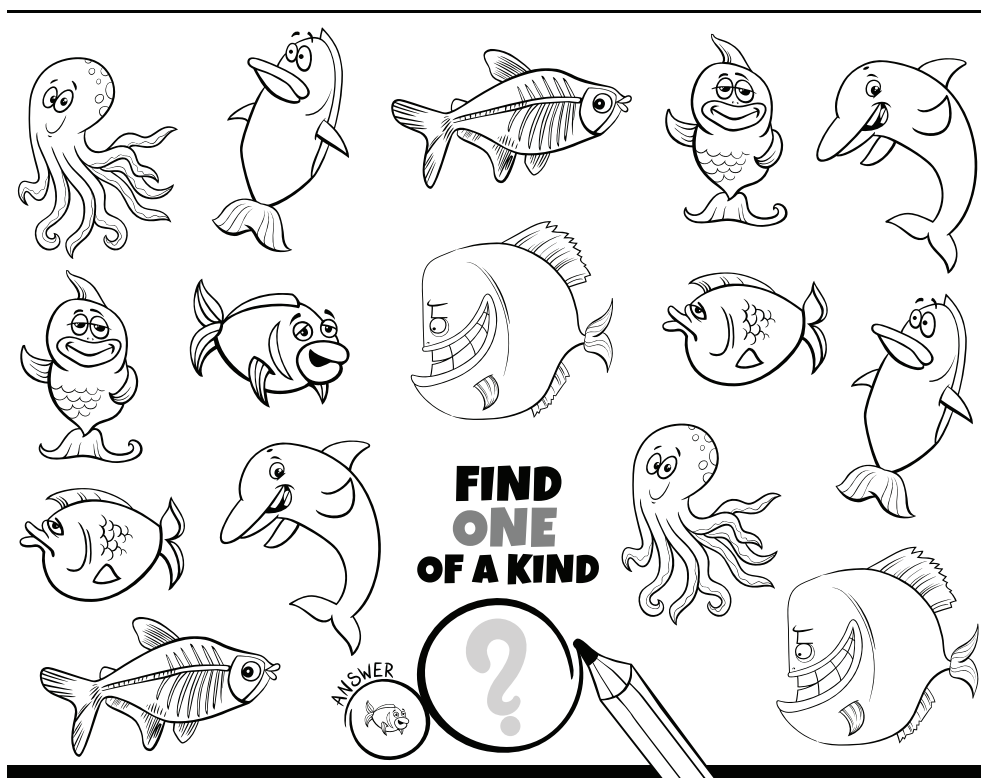
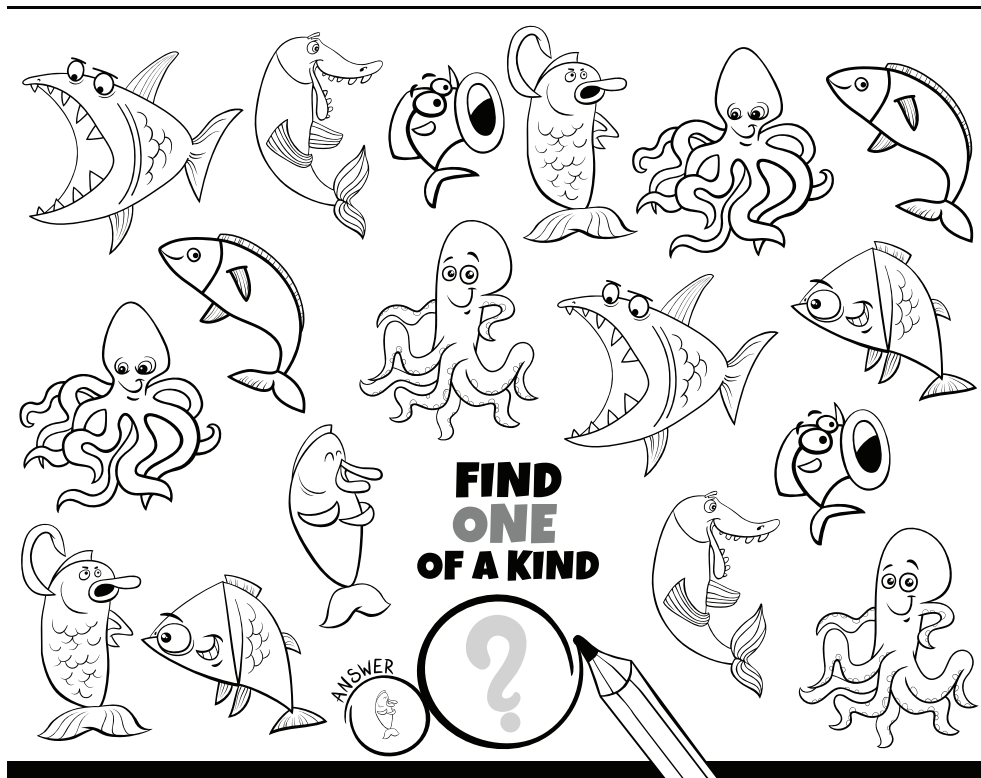


Can you find a picture that has no copy?



Optional Tasks

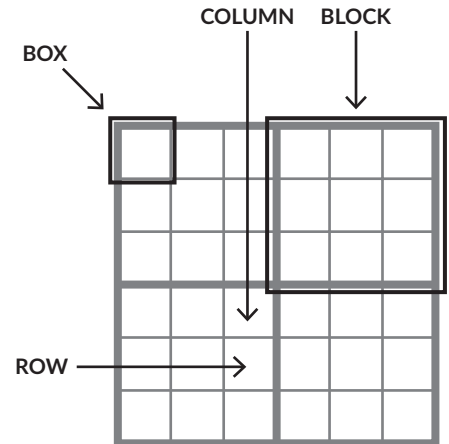
(Do these each day only after daily tasks are completed)



Sudoku is a popular game of numbers.

Rules:

- Fill a number from 1 to 4 in each box.
- Each number can be used only once in a row, column, or block.



| | | | |
|---|---|---|---|
| | | | |
| 3 | | 2 | 1 |
| | | 3 | |
| 4 | 3 | | 2 |

Puzzle 1

| | | | |
|---|---|---|---|
| 1 | | 4 | |
| | | | |
| | | | |
| | 1 | | 2 |

Puzzle 2

Rules:

- Fill each box with a number from 1 to 10.
- Numbers should not be repeated.
- Numbers in all the rows and columns should add to 18.

Puzzle 1
 Magic number - 18

Column
↓

| | | |
|---|----|---|
| 9 | | |
| | | |
| | 10 | 3 |

Row →

Rules:

- Fill each box with a number from 1 to 9.
- Numbers should not be repeated.
- Numbers in all the rows and columns should add to 15.

Puzzle 2
 Magic number - 15

Column
↓

| | | |
|---|---|---|
| | 1 | |
| 3 | | |
| | | 2 |

Row →

Boggle is a game to test your word skills.

Steps:

- Make as many words as you can from the given table.
- Each letter should connect to the next letter.
- Each word must have 3 letters or more.
- Do not use the same letters twice in the same word.

| | | | |
|---|---|---|---|
| O | I | G | O |
| D | K | S | K |
| E | T | I | E |
| S | R | E | S |

Show all the words you found to your teacher.

Ask her to help you find your final score and result.

POINTS PER WORD

| No. of Letters | Points |
|----------------|--------|
| 2 | 1 |
| 3 | 2 |
| 4 | 3 |
| 5 | 4 |

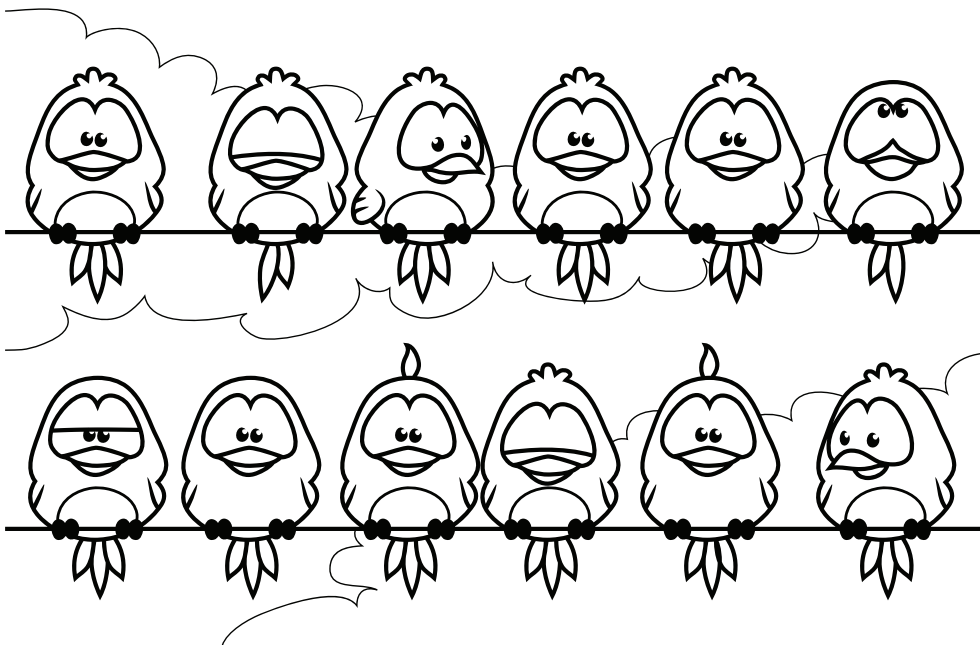
RESULT

| Score | Outcome |
|-------|-----------|
| 11-20 | Good |
| 21-30 | Excellent |
| 31-40 | Master |
| 40+ | Champion |

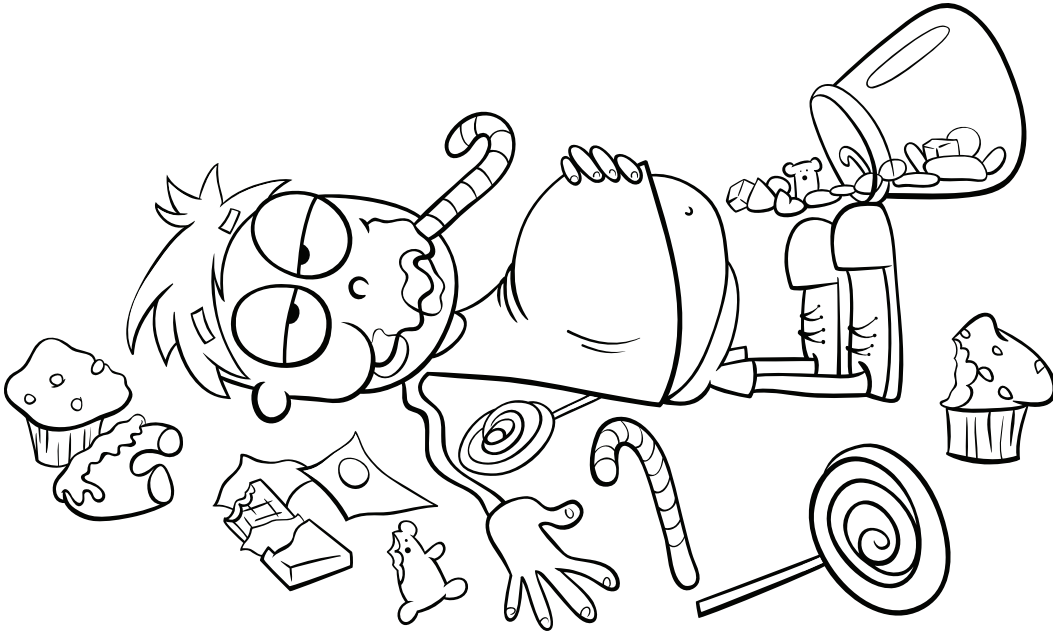
Find two same pictures



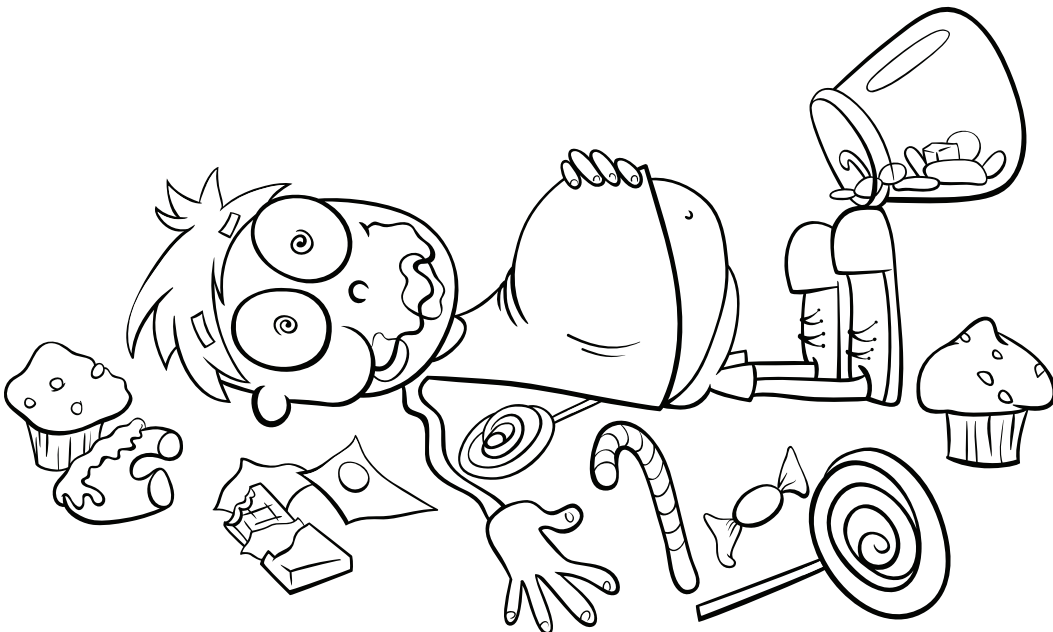
FIND 2 SAME PICTURES



1. Find 6 differences between the two pictures. Circle them on picture 2.
2. Colour picture 1 to complete the activity.

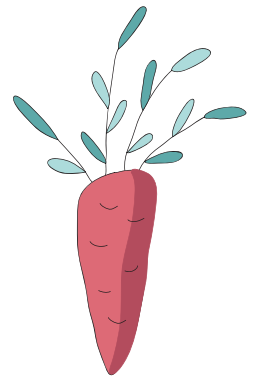
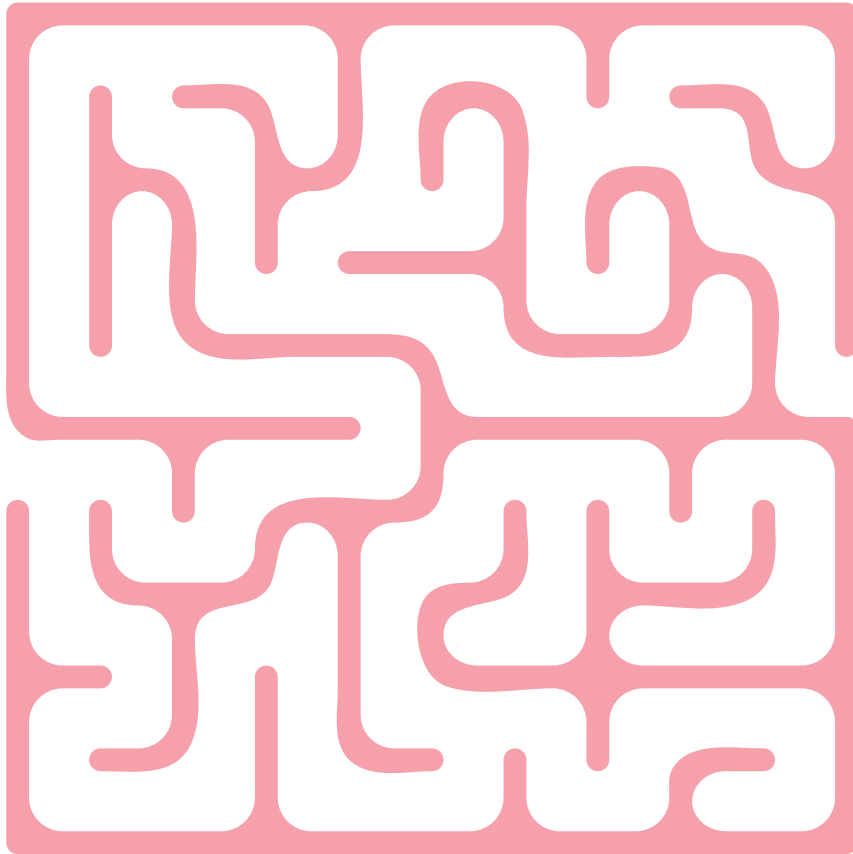
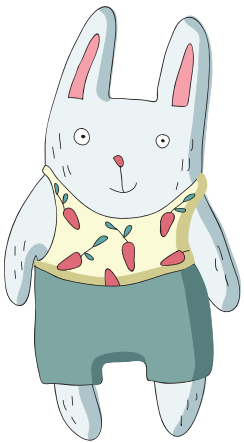


PICTURE 1



PICTURE 2

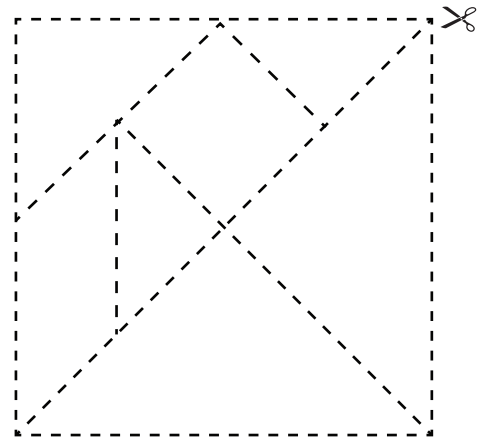
Help the Rabbit reach the carrot.



A tangram is a geometrical puzzle consisting of a square cut into seven pieces which can be arranged to make various other shapes.

Steps:

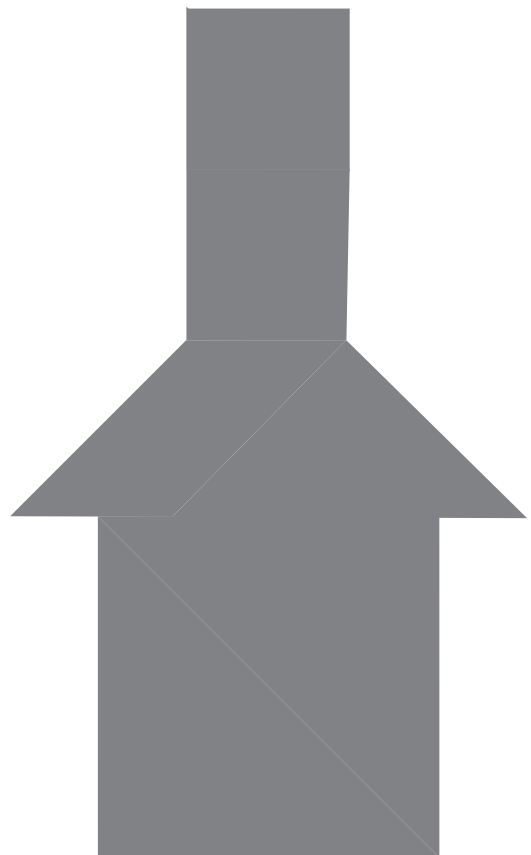
- Cut out the square below.
- From the square, cut out the shapes (along the dotted lines) to get your tangram pieces.
- Using the pieces, form each object shown below and show each one to your teacher.



Remember, you need to use ALL pieces to form each object shown!



Five

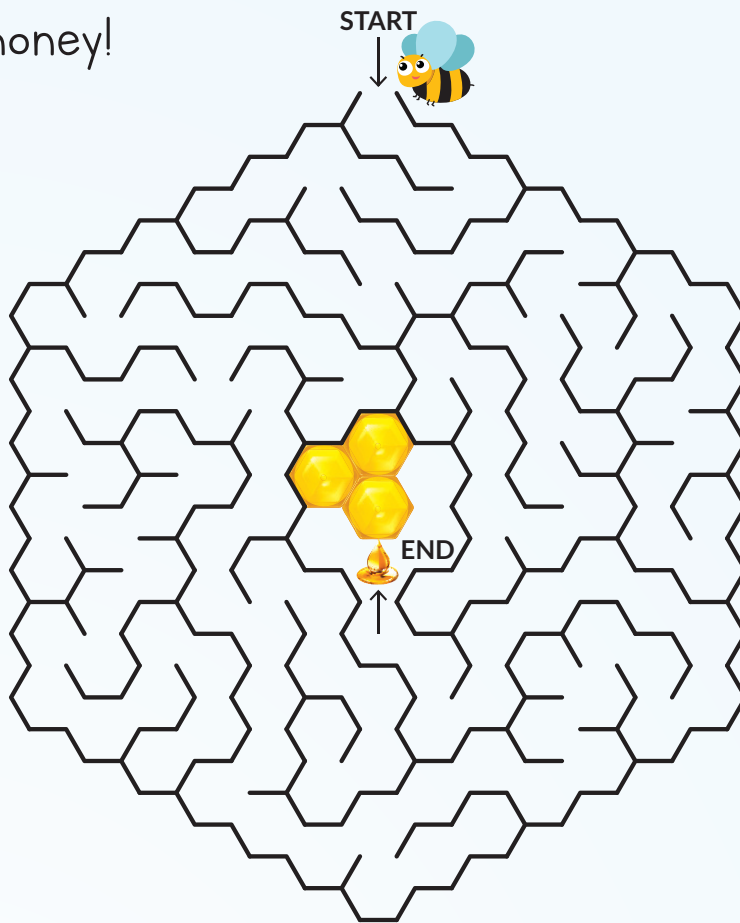


Furnace

Page blank
(for previous page cutting activity)

MAZE

Help the bee reach the honey!



The rules of the game are:

- 1) Starting from the bee, draw a single path to reach the honey.
- 2) You cannot cross the dark lines.
- 3) A different solved puzzle is given to help you.

