

100
PUZZLES
INSIDE

Disney

BRAIN
GAMES

MATHS

FUN PUZZLES FOR BRIGHT MINDS

Disney

**BRAIN
GAMES
MATHS**

First published in the UK in 2024 by Studio Press,
an imprint of Bonnier Books UK,
4th Floor, Victoria House, Bloomsbury Square, London WC1B 4DA
Owned by Bonnier Books,
Sveavägen 56, Stockholm, Sweden

www.bonnierbooks.co.uk

Copyright © 2024 Disney Enterprises, Inc. All rights reserved.
Pixar properties © Disney/Pixar
All rights reserved.

All rights reserved. No part of this publication may be
reproduced or transmitted in any form or by any means,
electronic, or mechanical, including photocopying, recording,
or by any information storage and retrieval system,
without permission in writing from the publisher.

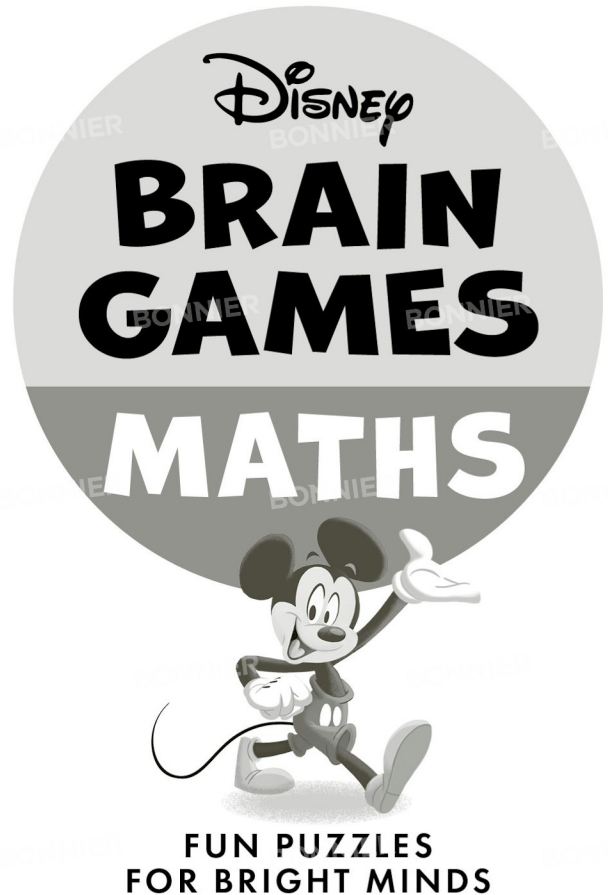
1 3 5 7 9 10 8 6 4 2

All rights reserved
ISBN 978-1-80078-741-4

Written by Chris Farnell
Edited by Emil Fortune
Designed by Alessandro Susin
Production by Giulia Caparelli



A CIP catalogue record for this book is available from the British Library
Printed and bound in Great Britain by Clays Ltd, Elcograf S.p.A.



INTRODUCTION

Puzzles are a great source of stimulation and exercise for your brain, and they're fun, too! Using your brain to work out a logic sequence, to calculate an equation, or to deduce the answer from a series of clues can keep you happy and occupied for hours, and it is good for you. A positive mental activity like puzzle-solving keeps your brain on its toes, so to speak!

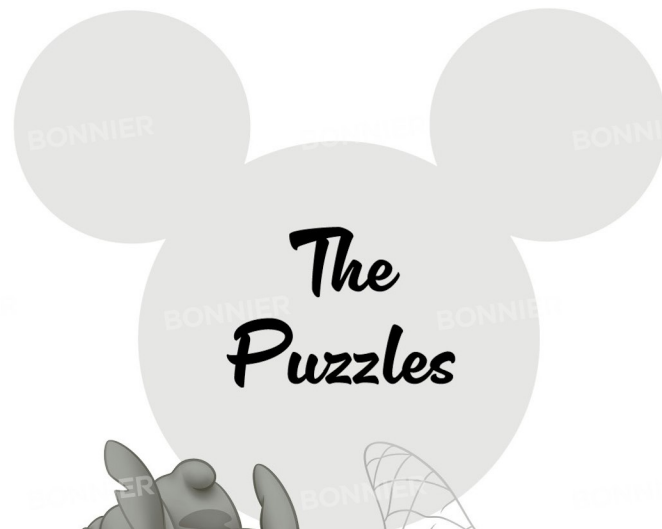
Now, if those puzzles are themed around your favourite characters from your favourite movies, that can take it to another level of fun! Heroes and villains, Princesses, animated characters and many more Disney favourites take centre stage in the wide variety of maths-based puzzles you will find in this book. There are all sorts of brainteasers, from simple pattern-matching and algebra to fiendish logic puzzles and tests of lateral thinking.

When you start a puzzle, remember to read the instructions carefully, because sometimes there will be important rules to follow that will make the puzzle the most enjoyable it can be.

And if you find yourself stuck, you can always "give a little whistle" and ask parents and carers or friends and family for help. You can even challenge your pals to a timed brain games battle!

So sharpen your pencil, calm your mind and get stuck in to this fun, stimulating series of games for your brain! Turn to the back of the book for the answers.





The Puzzles

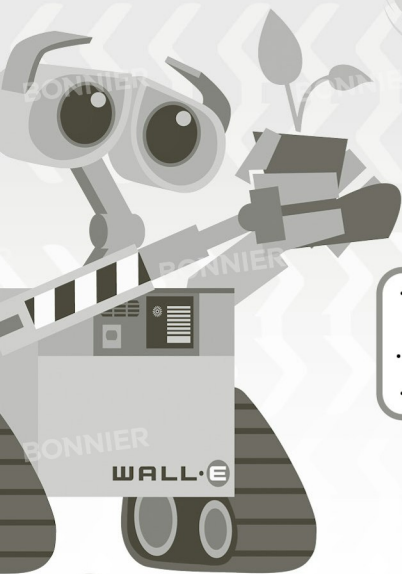
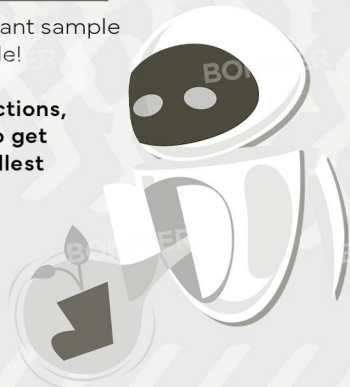


Puzzle 1

RUNAWAY WALL•E!

WALL•E needs to get his plant sample to EVE as quickly as possible!

Using the following instructions, can you write a program to get WALL•E to EVE in the smallest number of steps?



- Move Forward Any Number of Squares
- Turn Left 90 Degrees
- Turn Right 90 Degrees



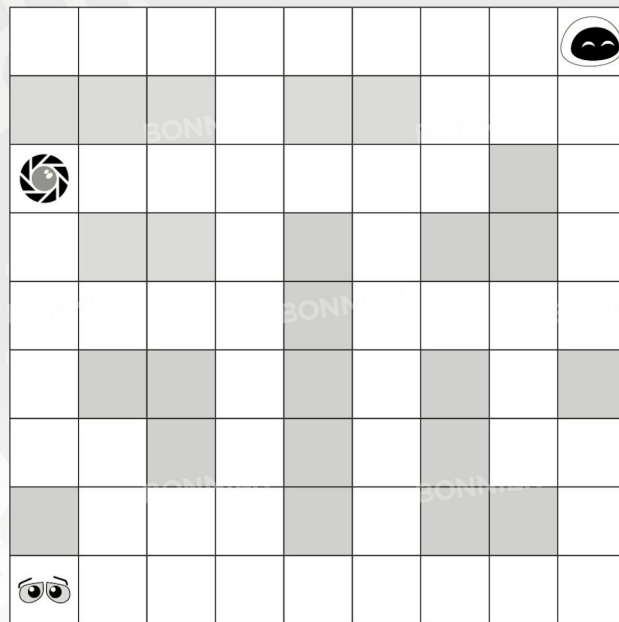
EVE



WALL•E



AUTO



Oh no! Auto has switched on his security scanners!

Plot a new route that will get WALL•E to EVE with the fewest instructions, but without crossing any path that has a clear line of sight to AUTO!

Puzzle 2

THE CAT'S WHERE IT'S AT

Help Thomas O'Malley the alley cat figure out which numbers go where in his alleyways. **Each square needs to be filled with a number between 1 and 9, and you can only use each number once.**

3	+		-		=	1
+		+		-		
	+		+		=	10
+		-	+			
	-		+	9	=	8
=		=		=		
14		2		15		



Puzzle 3

A STITCH IN TIME

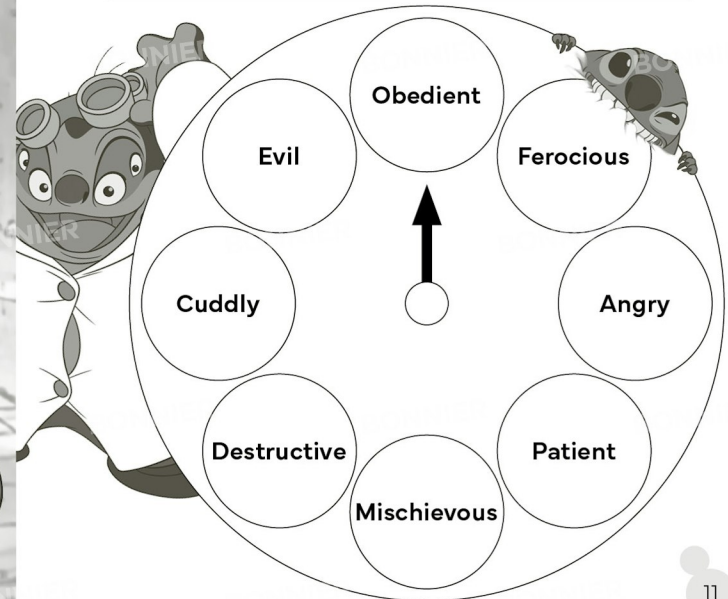
When Dr Jumba Jookiba made Experiment 626, he couldn't quite remember what he set the Geneticamizer to.

By repeating his actions, can you work out what setting created Stitch?

Find which word the Geneticamizer dial is pointing to:

1. Rotate 180 degrees clockwise
2. 90 degrees clockwise

3. 45 degrees anticlockwise
4. 90 degrees clockwise
5. 180 degrees clockwise
6. 45 degrees anticlockwise
7. 90 degrees clockwise



Puzzle 4

LIGHT WORK

Lumiere uses three candles every night. When each candle burns down, he saves the candle stub, and when he has seven he melts them down to make a new candle.

He has 42 candles and 42 candle stubs. When will he need to buy more candles?

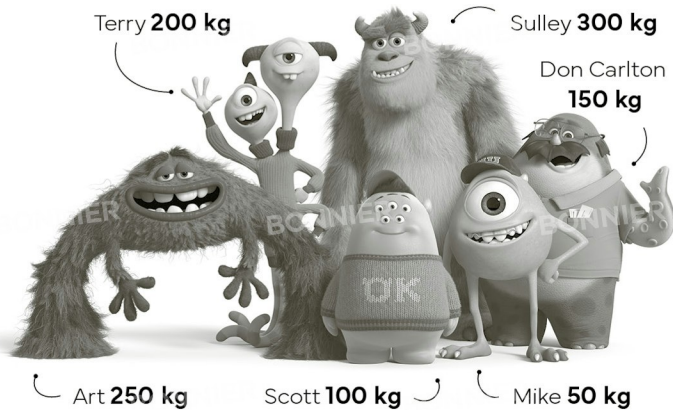
Use this space if you need to work it out on paper.



Puzzle 5

MONSTER LOADER

All of these monsters need to get to work on the Scare Floor, but these 3 monster loaders can only carry 350kg each. Can you fit all 6 monsters onto the loaders without breaking any of them? **Write which monsters need to go on which loaders without any loader carrying more than 350kg in weight.**



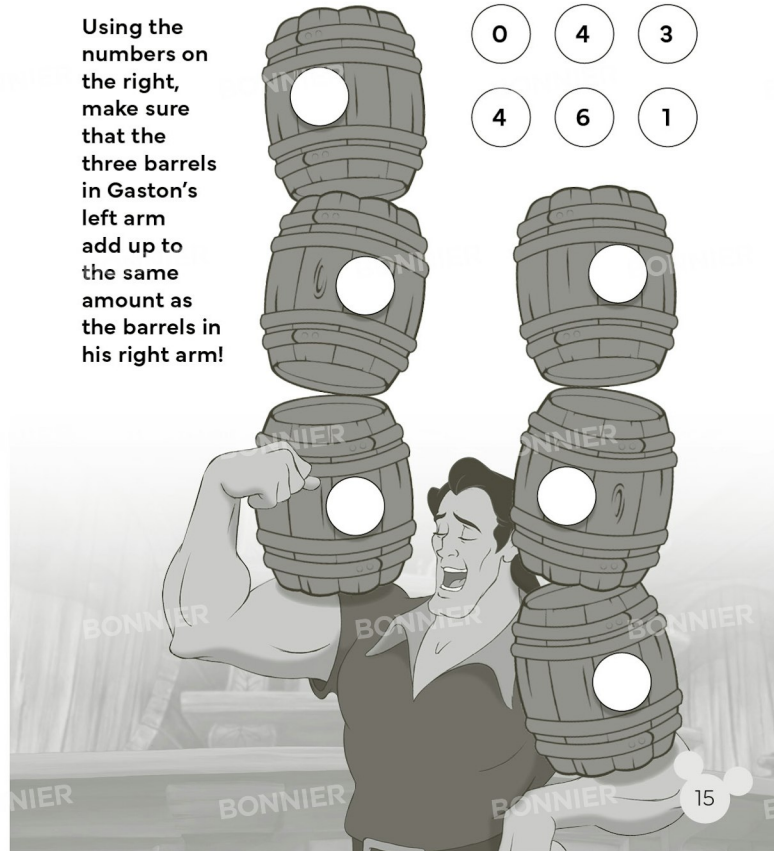
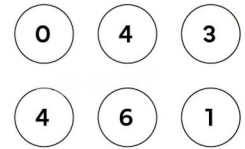
Loader 1	Loader 2	Loader 3
_____	_____	_____
_____	_____	_____

Puzzle 6

GASTON'S FEATS OF STRENGTH!

Gaston is showing off again by carrying as many barrels as he can in each hand, but to avoid toppling over he'll need to balance them correctly!

Using the numbers on the right, make sure that the three barrels in Gaston's left arm add up to the same amount as the barrels in his right arm!

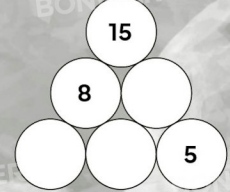
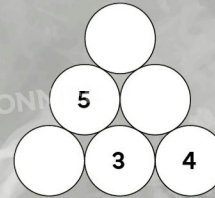
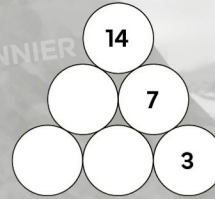


Puzzle 7

PRIDE ROCK ASCENT

Simba and Nala want to climb to the top of Pride Rock, without bothering any hyenas. Can you help them get there?

Fill in the empty circles, bearing in mind that the number in each circle is the sum of the two numbers underneath it.

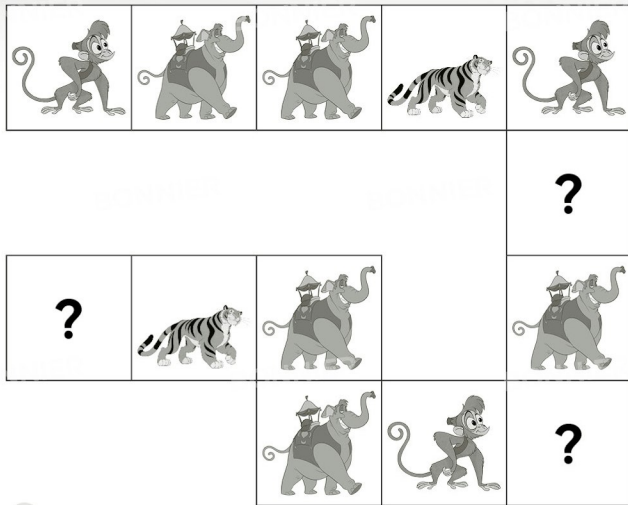


Puzzle 8

PRINCE ALI'S PARADE

Prince Ali is riding into town and he's brought a world-class menagerie! But some of his animals seem to have gone missing.

Look at the pattern below. Can you fill in the gaps?



Puzzle 9

PHIL'S HEROIC MOSAIC

Phil is trying to put together a heroic mosaic of numbers, but they need to follow certain rules.

Every tile needs to be filled with a number for 1 to 9, but numbers should never repeat on any line, horizontally or vertically. To make it even more heroic, the mosaic is divided into 9 3-by-3 grids, and these squares can't contain any repeated numbers either.

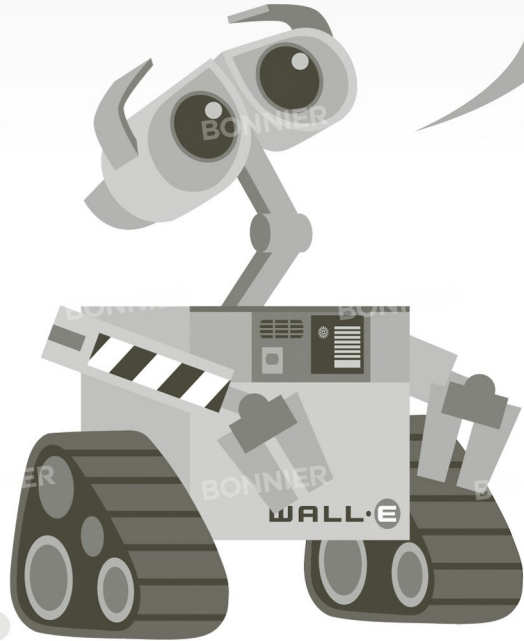
			7	3				4
8		4			1			6
					4	5	1	
2	9							8
		8	1				6	7
7							9	5
	7	8	2					
	4		8				9	1
5				1	6			



Puzzle 10

SNEAK-E!

WALL·E needs to find his way to EVE again, but this time AUTO has activated his SECURI-T robots! Using the instructions below, **can you plot a path to EVE** without passing AUTO or the SECURI-T robots' lines of sight?



EVE



WALL·E



AUTO



SECURI-T

Instructions:

- Move Forward Any Number of Squares
- Turn Left
- Turn Right

Puzzle 11

CATERPILLAKURO!

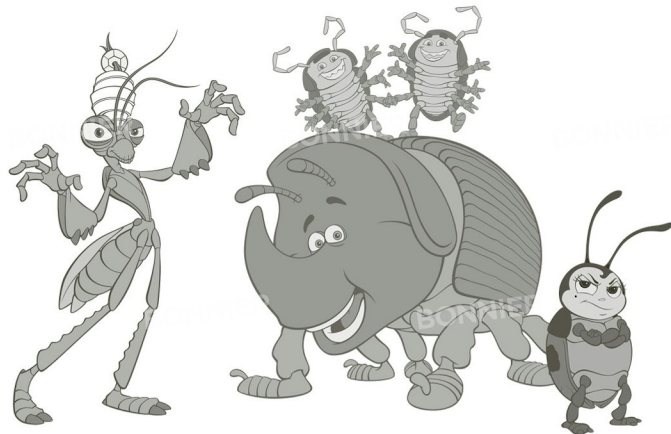
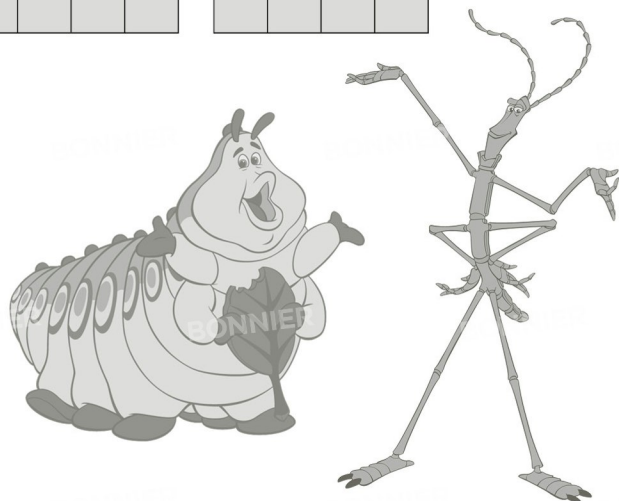
Heimlich the caterpillar has set his friends this fun Kakuro puzzle. Can you help Slim, Manny, Dim and Francis to solve it?

Fill in all the empty squares with numbers from 1 to 9 so that each horizontal block adds up to the clue on its left, and each vertical block adds up to the clue on the top.

An example of how to complete these puzzles is below. Notice how the numbers add up.

	4	2	
3			
3			

	4	2	
3	1	2	
3	3		



			7	8				
		4						
		11						
	17							
3	3			4		4		
			7				19	16
6					14			
		12			24		14	
							13	
			24					
				14				

Puzzle 12

BAYMAX'S CODE CATASTROPHE!

Oh no! Baymax has had a malfunction, and part of his binary coding has been wiped! **Can you complete his code to get him working again?**

Fill in the binary code following these instructions:

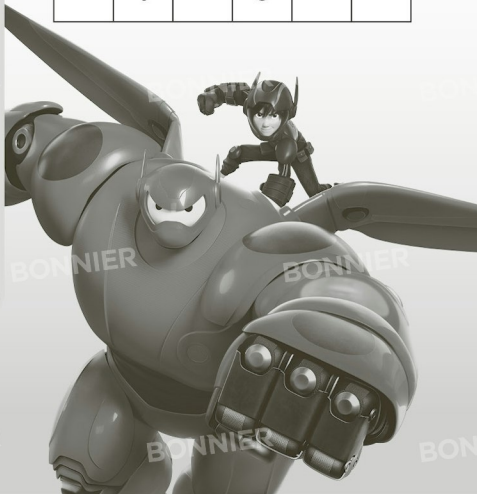
Each box should contain either a zero or a one.

You cannot have more than two consecutive ones or zeroes in a row or column.

Each row and column should contain an equal number of ones and zeroes.

Each row and column must be unique.

			1		
0	0	1	1	0	1
1	1	0	0	1	0
0			1	0	1
			0	1	0
	1		0		

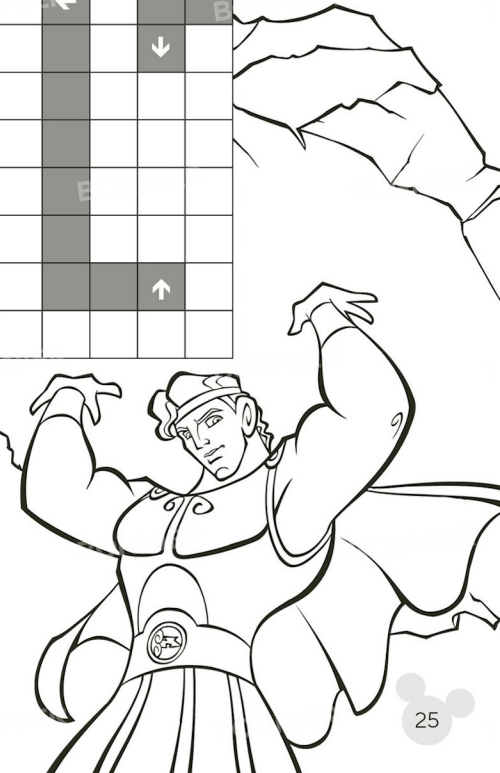
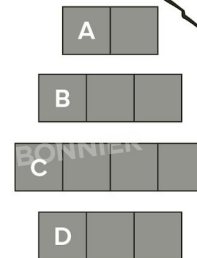
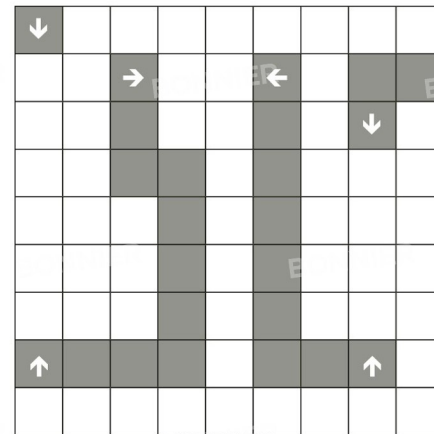


Puzzle 13

AQUEDUCT TAPE

The aqueduct is broken, and Hercules is the only one who can fix it! Can you work out which of these pipe segments go where to put the aqueduct back together?

Match the missing pipe segments to the gaps.



Puzzle 14

HEIGHTS IN DEPTH

Mr Ray's class are all lined up for their latest field trip, but Dory's forgotten what order they go in. They are supposed to be lined up from **shortest** to **tallest**. Work out the height of each fish and what order they should line up.

cm

6

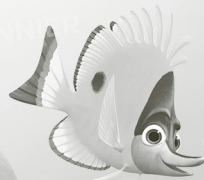
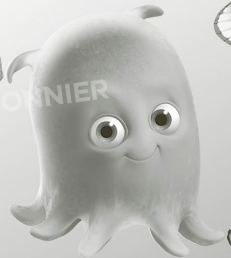
5

4

3

2

1



Sheldon height: ___ cm

Ted height: ___ cm

Pearl height: ___ cm

Nemo height: ___ cm

On the way to the field trip, Mr Ray has a pop quiz for the class. Can you answer his questions?

What is the difference between the tallest fish in the class, and the shortest?

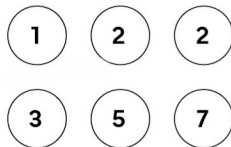
How tall would the class be if they all swam on top of each other in a line?

How many of the shortest fish would you need to make the tallest?

Puzzle 15

HELP LUISA BALANCE THE DONKEYS

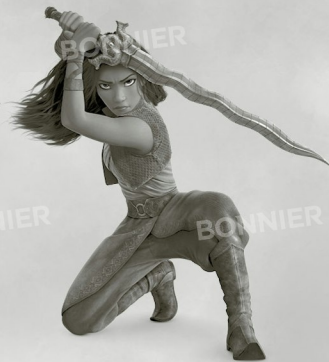
The donkeys have escaped again! Help Luisa get them back in their pen by making sure they are perfectly balanced on her shoulders. **Using the numbers on the right, make sure that the three donkeys on Luisa's left shoulder add up to the same amount as the donkeys on her right arm!**



Puzzle 16

RAYA'S MAZE!

Raya is trekking across Kumandra, looking for a way to banish the Druun. The only safe route is between maths questions that have the same answer. **Can you guide her through?**



	12-2		99/11						8+1
	16/4		4+5			7+2			21/3
			15-7		7+3				
	2+8							6+2	
		1+10							
					3x3				
						18/2			

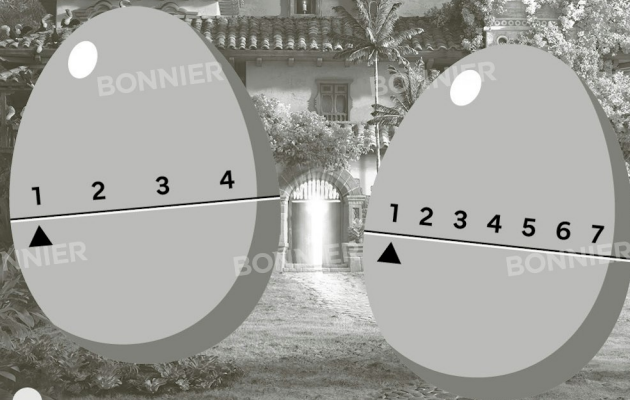
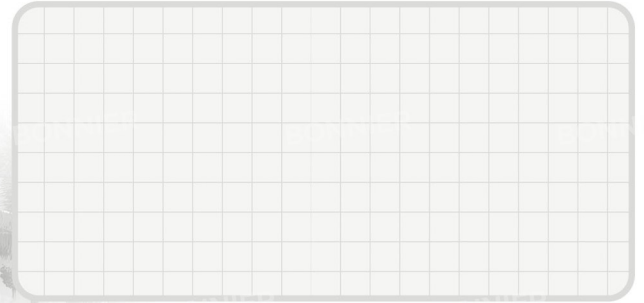
Puzzle 17

AREPA TIME

Julietta is making delicious arepas for her family. It takes exactly fifteen minutes to cook the arepas, but she only has two old egg-timers: one which times four minutes, and one which times seven minutes. She can turn them over whenever she she wants.

How can she use them to time exactly fifteen minutes?

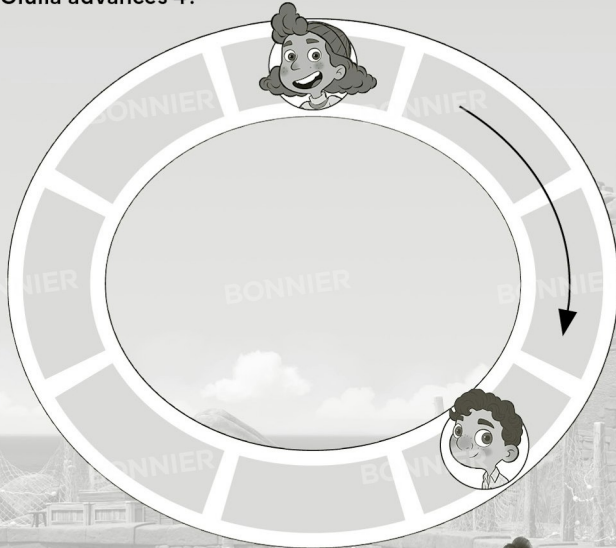
Use this space if you need to work it out on paper.



Puzzle 18

SEAMONSTER CYCLE RACE!

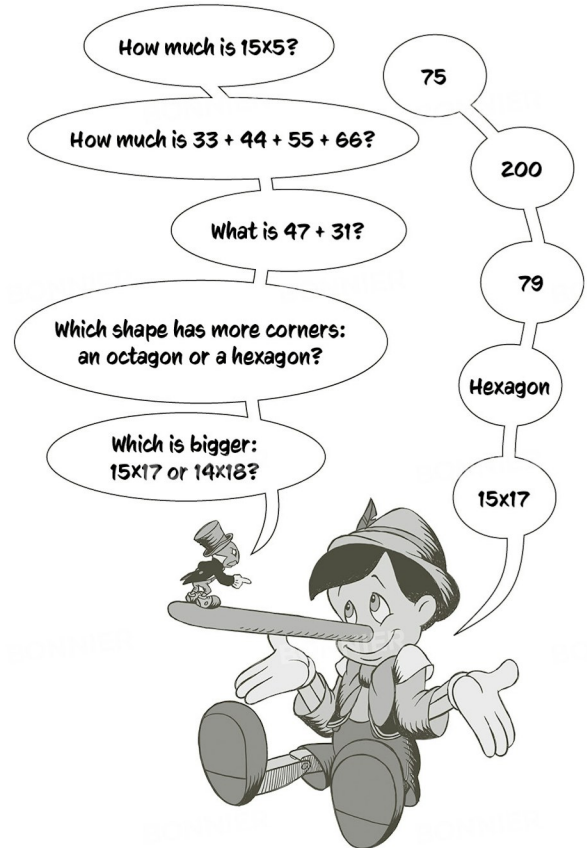
Luca and Giulia are having a bicycle race to practice for the triathlon. Giulia has got into the lead, but Luca is catching up fast. **How many turns will it take for Luca to catch up with Giulia if Luca advances 5 segments each turn and Giulia advances 4?**



Puzzle 19

PINOCCHIO'S TRUTH TEST

Pinocchio's nose grows when he tells a lie. Look at the answers he gives to Jiminy Cricket. **If Pinocchio's nose grows 5 cm each time he lies, how long will his nose grow?**



Puzzle 20

CY-BUG SCANDAL!

The Cy-Bugs have escaped into the game's program and started eating all the binary code!

Help Vanellope and Ralph fit in the missing sections by following the rules on the next page:



		1					1
0	1	0	1			1	0
1	0	1	0			0	1
0	1	0	1	0	1	1	0
			0	1	0	0	1
	0	1	1	0	0	1	
	1		0	1	1	0	
1	0	0	1	0	1		

Each box should contain either a zero or a one.

You cannot have more than two consecutive ones or zeroes in a row or column.

Each row and column should contain an equal number of ones and zeroes.

Each row and column must be unique.





Puzzle 21

KEEPING SCARE!

Once again Sulley has achieved the most Scares on the Scare Floor with 9 big Scares. But how many Scares did Randall and George get?

Examine these maths questions to work out Randall and George's Scare Scores.



$$+ = 7$$




$$- = 5$$




$$\times = 12$$

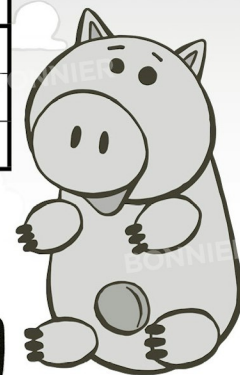

Puzzle 22

TOY-DOKU

Hamm has knocked over Andy's building blocks and needs to put them back exactly as he found them.

Each block has a number from 1 to 9, but Andy had arranged them so that the numbers never repeat on any line, horizontally or vertically. He also divided the blocks into 9 3-by-3 blocks, and those squares didn't contain any repeated numbers either.

2		1	8					
	4					8	9	3
			7				1	
4	6	2	9					
	7	8				1	5	
					3	6	4	2
	2			5				
5	1	3					2	
					6	4		5



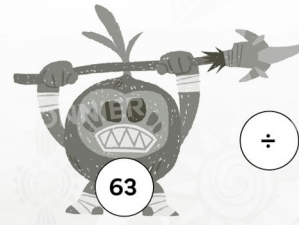
Puzzle 23


SHY COCONUTS

Some Kakamora have hidden themselves among Moana's coconut harvest. You can tell which coconuts are Kakamora in disguise, because the numbers they have stuck to them have made the questions they're hiding in incorrect.

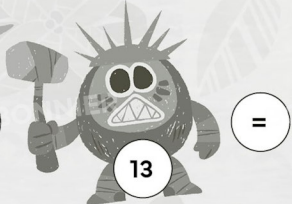

Make the sums correct by removing 1 digit from each question.

 $32 + 70 = 73$

 $63 \div 7 = 19$

 $42 + 35 = 37$

 $41 - 60 = 35$

 $15 - 13 = 12$

Puzzle 24

BINAR-E

Poor WALL-E's had a rough day. He's been dragged through space on a rocket ship, dropped down a trash chute, and almost squished trying to keep the Holo-Detector open so that the *Axiom* could return to Earth. He's mostly fixed now, but there are some gaps in his binary programming. **Can you fix them?**

Each box should contain either a zero or a one.

You cannot have more than two consecutive ones or zeroes in a row or column.

Each row and column should contain an equal number of ones and zeroes.

Each row and column must be unique.

	1		0		
1	1		0		
1			0		
					1
1					

		1			0
	0				0
0		0	1		
					1
1		0			
0	1			0	



Puzzle 25

MAMA ODIE'S MEDICINAL GUMBO

Mama Odie's mixed together a new gumbo recipe from several of her old potions, but she's forgotten how much tabasco is mixed into each recipe.



By looking at these recipes, can you tell how much tabasco has gone into her latest recipes?

$$\begin{array}{c} \text{Potion A} + \text{Potion B} + \text{Potion C} = 18 \\ \text{shots of tabasco} \end{array}$$

$$\begin{array}{c} \text{Potion D} + \text{Potion E} + \text{Potion F} = 26 \\ \text{shots of tabasco} \end{array}$$

$$\begin{array}{c} \text{Potion G} + \text{Potion H} + \text{Potion I} = 20 \\ \text{shots of tabasco} \end{array}$$

$$\begin{array}{c} \text{Potion J} + \text{Potion K} + \text{Potion L} = 18 \\ \text{shots of tabasco} \end{array}$$

$$\begin{array}{c} \text{Potion M} + \text{Potion N} + \text{Potion O} = ____ \\ \text{shots of tabasco} \end{array}$$

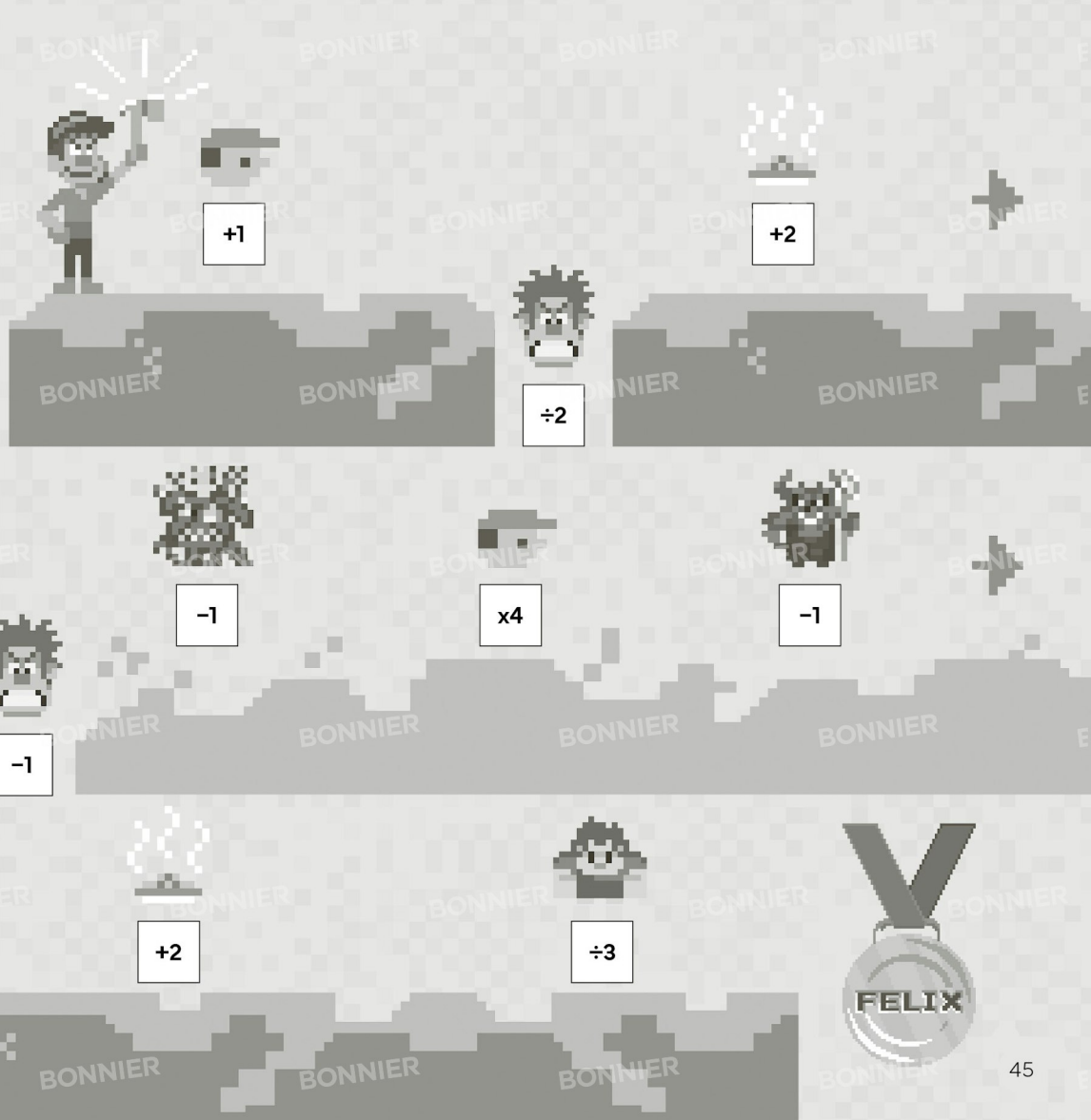
$$\begin{array}{c} \text{Potion P} + \text{Potion Q} - \text{Potion R} = ____ \\ \text{shots of tabasco} \end{array}$$

Puzzle 26

FELIX'S FRENZY!

This level of Felix's new game is filled with traps and treasures. He starts the game with 3 lives.

Counting up the effects of everything he runs into across the level, how many lives will he have at the end?



Puzzle 27

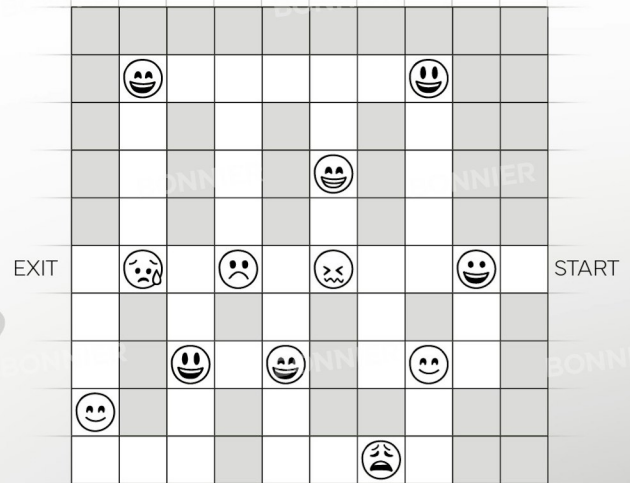
THINK HAPPY THOUGHTS!

The Darling children are flying high over London on their way to Never Land!

To fly, all you need are happy thoughts, and every happy thing they see lifts the children up 20 feet. However, every sad thing they see makes them *drop* 20 feet.

Which route through London will allow the children to fly highest? How high can they get?

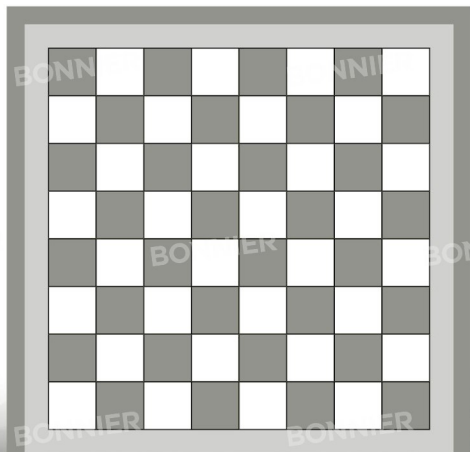
What is the safest route through London, with the fewest sad things along the way?



Puzzle 28

EIGHT QUEENS

Mr Gao has a chess puzzle for you to solve! In chess the queen can move any number of spaces in a straight line – horizontally, vertically or diagonally. **Place eight queens on the chess board so that no queen is in the same line as any other queen. How many different ways can you find?**

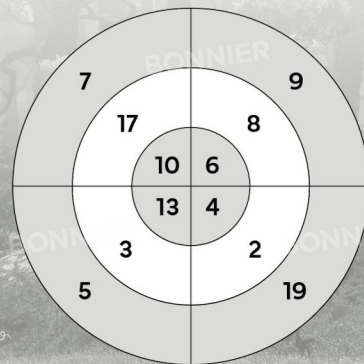


Puzzle 29

ARCHERY PRACTICE

Merida's practising her archery skills. To prove what a great archer she is, Merida must hit one number in the outer ring, one number in the inner ring and one number in the centre that add up to each of the three numbers below.

Can you figure out which three numbers she must hit to make each of the target scores?



27

14

42



Puzzle 30

ALARMED LLAMA!

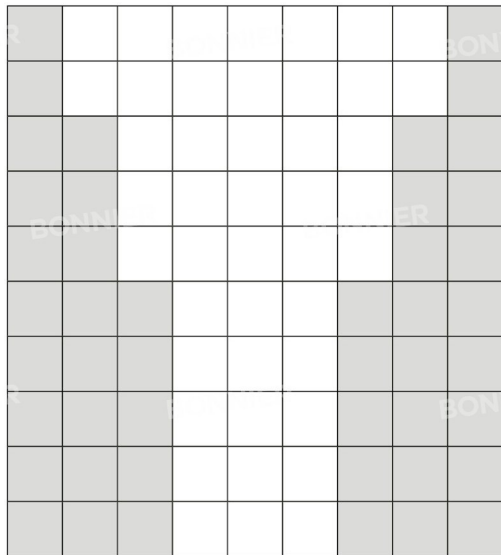
Oh no! Kuzco and Pacha have fallen into a ravine! To escape, they'll have to work together – whether they like it or not.

Kuzco the Llama has legs that are 70cm long and a body that is 190cm long.

Pacha is 150cm from shoulder to toes, and his arms are 70cm long.

If they press together, stretched out as far as they can, how high can they get up the ravine?

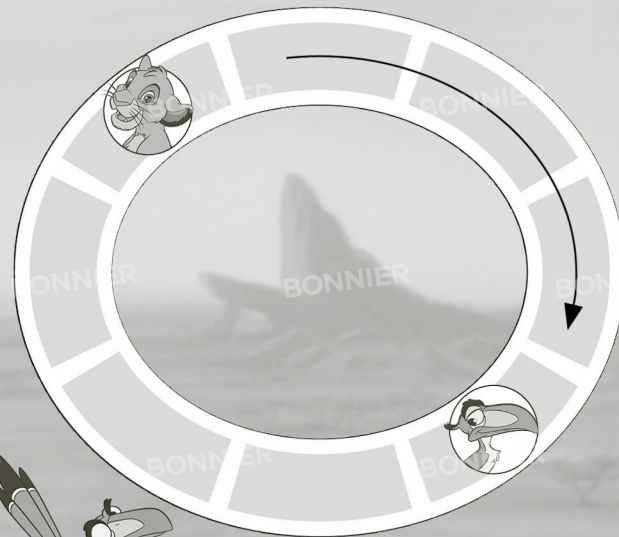
Each square is 70cm across. Will Pacha and Kuzco be able to get to the top?



Puzzle 31

THE MANE EVENT

Simba is practising hunting by stalking Zazu. **Can you work out how many turns it will take for Simba to catch Zazu if Simba advances 3 segments each turn and Zazu advances 2?**



Puzzle 32

SQUARE PARTS

The *Axiom* comes equipped with an entire entourage of robot helpers made up of all sorts of different shapes.

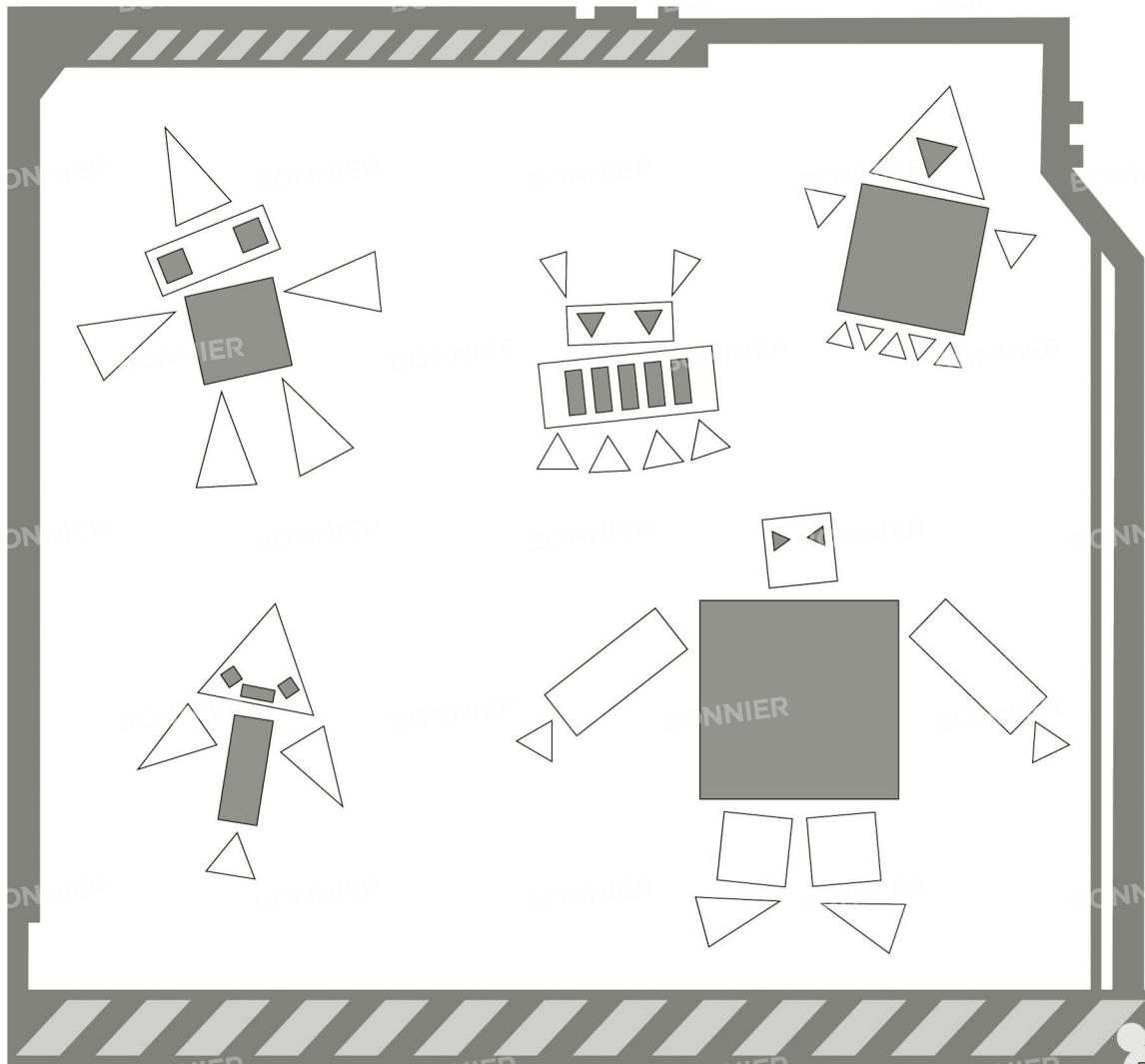
Can you identify the parts they are made of?

How many squares are there in the picture?

How many equilateral triangles are there?

How many four-sided shapes are there?

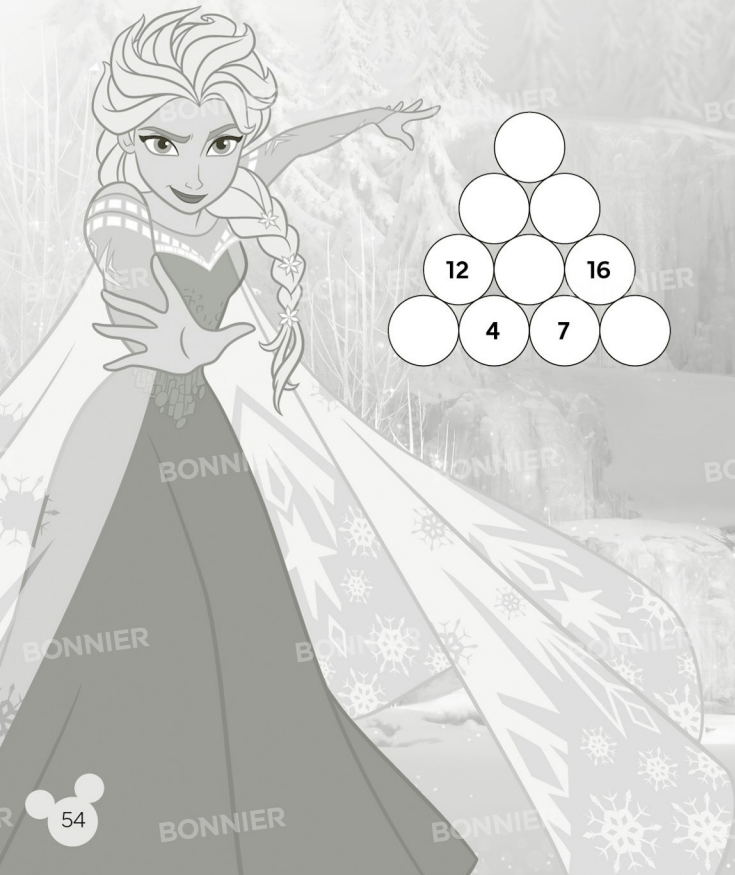
How many isosceles triangles are there?



Puzzle 33

SNOWBALL STOCKPILE

Elsa and Anna are going to have a snowball fight. Each snowball has to be numbered with the sum of the two snowballs beneath it. Whose pile adds up to the biggest number?

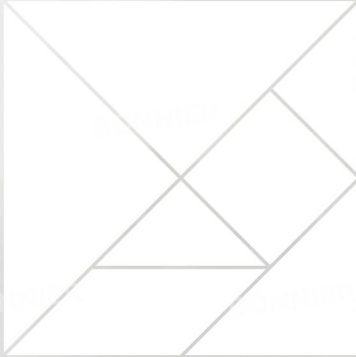


Puzzle 34

JUNGLE JUMBLE

All the creatures in the jungle can be made from the shapes cut out of this square. But which animals aren't from the jungle?

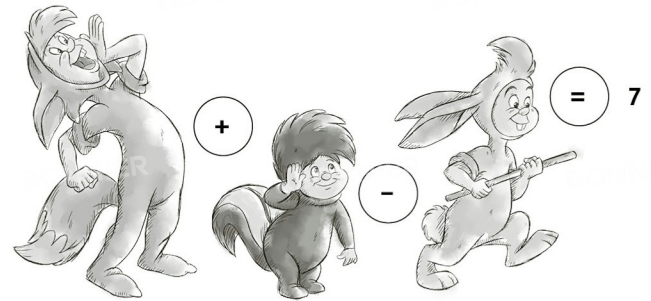
Select the animals that cannot be made from this square.

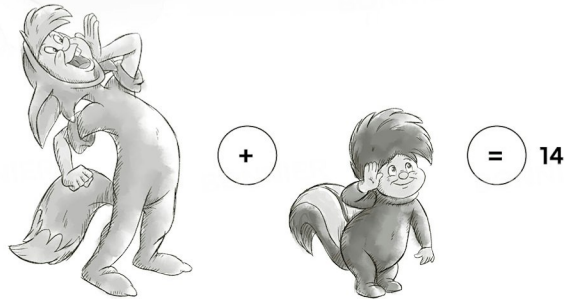


Puzzle 35

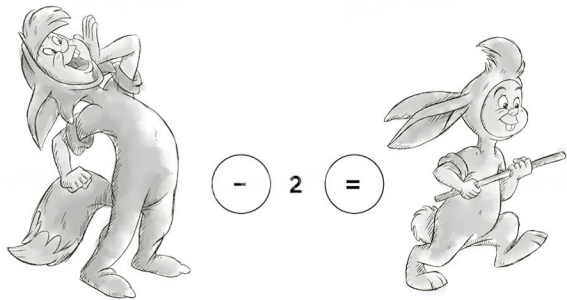
LOST BOY BIRTHDAYS

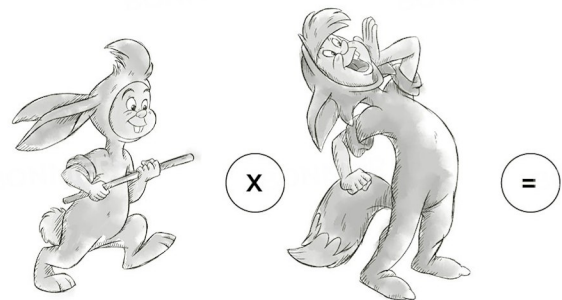
The Lost Boys have been in Never Land for so long that they've forgotten how old they are! By looking at these sums, can you work out how old each Lost Boy is? Can you use their ages to answer the unfinished questions below?


$$\text{Fox Boy} + \text{Squirrel Boy} - \text{Rabbit Boy} = 7$$


$$\text{Fox Boy} + \text{Squirrel Boy} = 14$$


$$\text{Rabbit Boy} + \text{Fox Boy} + \text{Squirrel Boy} =$$


$$\text{Fox Boy} - 2 = \text{Rabbit Boy}$$

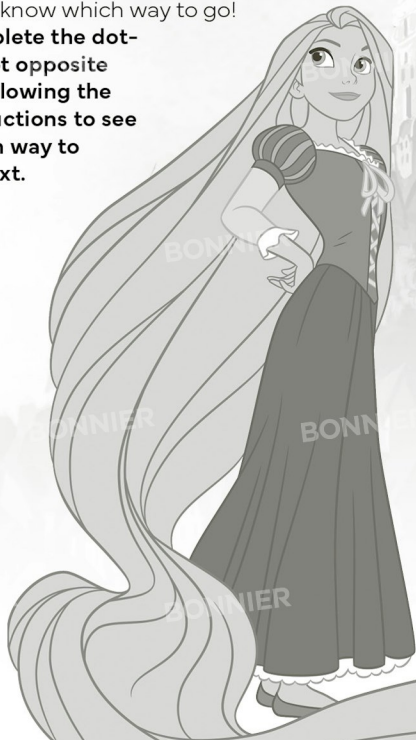

$$\text{Rabbit Boy} \times \text{Fox Boy} =$$

Puzzle 36

DIRECTIONS DILEMMA

Rapunzel and Flynn are trying to find their way back to Rapunzel's kingdom of Corona – but the road sign has fallen down and now they don't know which way to go!

Complete the dot-to-dot opposite by following the instructions to see which way to go next.



	16	24	
	•	•	
48•	•	•	• 2
	32	12	
4 •			•25
36•	18	6	• 9
	•	•	
	8	11	

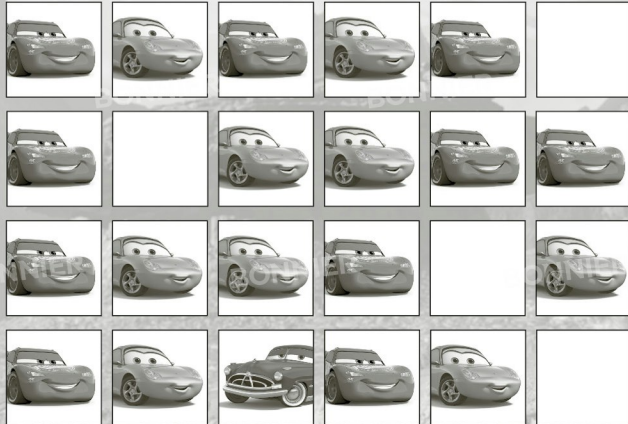
1. Start with the number that is 4×4
2. The second number should be double the first
3. Take away 30 from that number to find the third number
4. Add 7
5. Multiply the last two numbers together
6. Subtract 10
7. Divide by 2
8. Multiply by 4

Puzzle 37

CAR PARK PATTERNS

Mater's new car park is surprisingly neatly organized – but some of the cars are missing.

Can you complete the pattern?

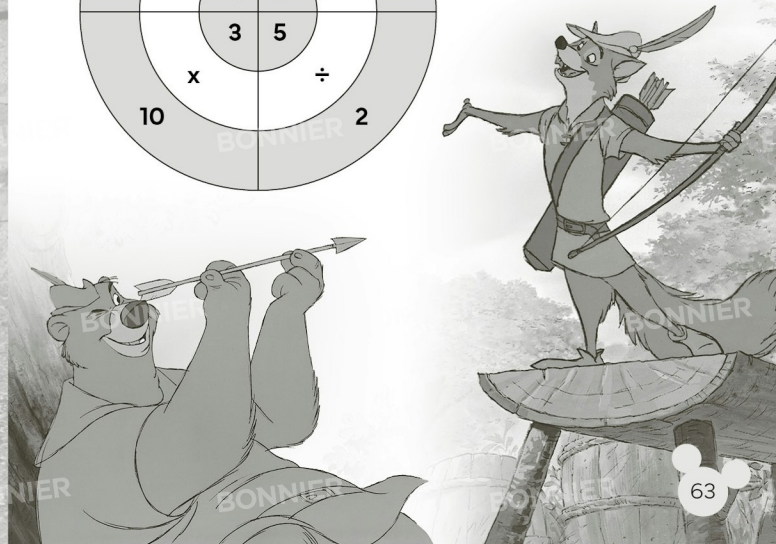
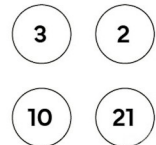
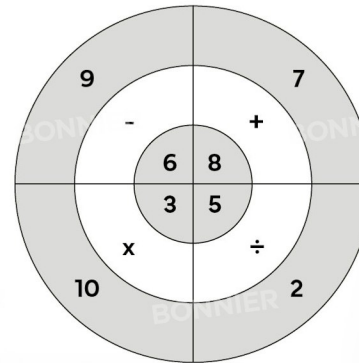


Puzzle 38

THE GREATEST ARCHER IN NOTTINGHAM

Robin Hood is here to prove that he is the greatest archer in Nottingham. He has said that he can make any number King John can think of by firing an arrow at a number on the outer ring, an arrow at one of the functions on the middle ring, and an arrow at one of the numbers in the centre.

What numbers does he need to hit?



Puzzle 39

MICKEY'S MAGICAL MIX UP!



The Sorcerer's Apprentice has accidentally knocked all of his master's Plus and Minus potions over!


Can you put the pluses and minuses back in the right places so that these sums work forwards, backwards, up and down?

	6	5	4	
	=	=	=	
-3	=	9	2	4 = 11
-6	=	8	1	3 = 4
6	=	7	6	5 = 8
	=	=	=	
	8	7	6	

Puzzle 40

...AND THE KITCHEN SINK

Every time Arthur tries to clean one of Merlin's dirty dishes, the number of dirty dishes doubles. He started with one dirty dish. Arthur has tried to clean 10 dirty dishes. **How many dirty dishes are there now?**

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	



Puzzle 41

BUG BUFFET!

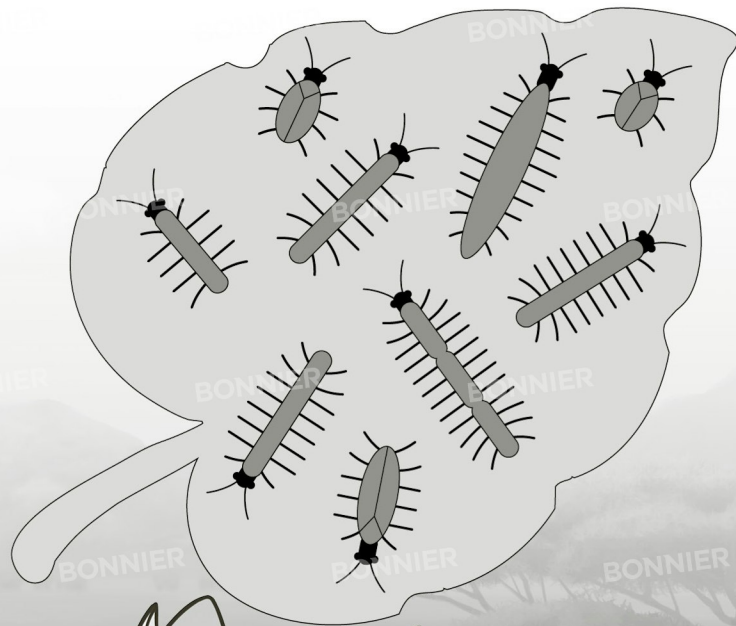
Timon and Pumba are sitting down to their favourite lunch: bugs!

Timon likes to eat bugs where he can bite the legs off three at a time without leaving any leftovers.

Pumba likes to eat bugs where he can bite the legs off four at a time without leaving any leftovers.

Because they're buddies, neither will eat a bug if they know the other one would like it.

Who gets the most bugs? Which bugs are left?



Puzzle 42

X MARKS THE SPOT!

Captain Hook has buried some treasure on a desert island. Using your treasure map and the clues below, can you find the coordinates of the four pieces of treasure?



Each square on the map represents one pace. The treasure is buried in four locations:

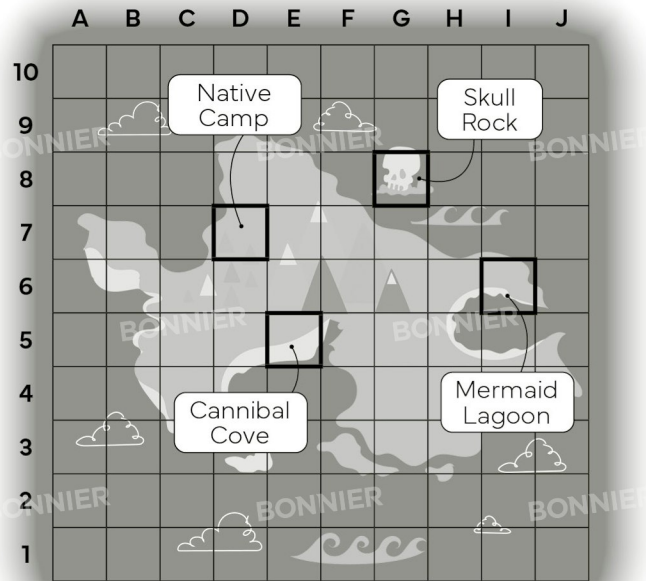
One pace north of the Cannibal Cove.

One pace west of the Mermaid Lagoon.

Two paces west of the Skull Rock.

Two paces west of the Native Camp.

Write down the coordinates of each of the four pieces of treasure.



Puzzle 43

HI HO, HI HO

If seven people can mine seven jewels in seven hours, how many people would it take to mine seventy jewels in seventy hours?



Puzzle 44

WHEN IN ROME

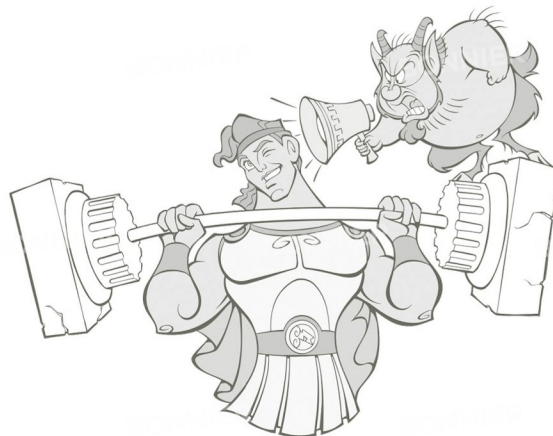
To train Hercules, Phil has brought him some maths questions to answer – but the tablets came from Rome!

Can you help Hercules answer these Roman numeral sums?

$$\text{IV} + \text{V} = \text{---}$$

$$\text{III} + \text{II} = \text{---}$$

$$\text{VIII} + \text{II} = \text{---}$$



Puzzle 45

BAYMAX'S SHOPPING LIST

As a healthcare robot, Baymax counts in binary. This means rather than using the digits for the numbers 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9, he only uses 0 and 1.

So, while you would count up to 9 and then, when you run out of digits, go to 10, Baymax will count one as "01", then for two he will use "10", and for three he will use "11". Baymax would write 10 as "1010".

Baymax has given Hiro a shopping list, but the numbers are all in binary. Can you help Hiro figure out how many of each item he needs?

Baymax's Shopping List

Binary	Decimal
100 Bottles of Disinfectant:	_____
0111 Packets of sticky plasters:	_____
1010 Lollipops:	_____

Baymax has also asked Hiro to check his first aid kit. Can you translate these numbers into binary so Baymax can read them?

Baymax's First Aid Kit

Decimal	Binary
16 Rolls of bandages	_____
13 Cold presses	_____
14 Lollipops	_____
12 Packets of sticky plasters	_____
11 Bottles of disinfectant	_____

- 0001
- 0010
- 0011
- 0100
- 0101
- 0110
- 0111
- 1000
- 1001
- 1010



Puzzle 46

THIS PUZZLE WILL DRAGON AND ON...

One of these shapes is a shard of the Dragon Gem that Raya needs to repel the Druug from Kumandra. But which shape is the shard?



Figure out which shape you need by completing this dot to dot. Only join the dots that follow the 4 times table in ascending order.



Puzzle 47

TRAIL OF DESTRUCTION!

Experiment 626 ("Stitch" to his friends) is on the loose, and Pleakley and Dr Jookiba have been sent to track him down! But the only clue they have is the trail of destruction he has left behind.

Can you work out Stitch's path by filling in the numbers he's destroyed?

Follow the path beginning at number 1 and tracing it through 2, 3, and 4 continuing all the way to number 25. However, not all the numbers are visible, so you will have to deduce where they go.

Use only horizontal and vertical paths – never go diagonal.

Here's an example solution going from 1 to 16 to show how it works.

8	7	4	3
9	6	5	2
10	13	14	1
11	12	15	16



25		1		9
	20			
				12
	16			



Puzzle 48

PRINCE JOHN'S MONEY BAGS

Prince John has asked the Sheriff of Nottingham to make sure he has the right amount of gold in each treasure chest. Can you solve this number square to make sure he has?

Fill all empty squares so that the numbers 1 to 6 appear exactly once in each row and column. The numbers in each block should produce the result shown in the top-left corner of the block according to the symbol appearing on the top of the grid.

For instance, in this example the number in the corner is 4, and the symbol is +, so you need to fill in the numbers 2, 1 and 1 that add up to 4.

4+	2	1
1		

8+	5	10+	3-	30x	
		6	4		
12+		4	1	6x	
				6	
		3-	5	2	18+
				1	
3-	4÷			5	
2	4				
5	11+	1-	14+	8x	
	1		6		
		2	3	5	



Puzzle 49

SOLVE THE RIDDLE OF THE CAVE!

To enter the Cave of Wonders, Aladdin must find the missing numbers in this puzzle.

Each square needs to be filled with a number between 1 and 9, but you can use numbers more than once. The functions surrounded by stars are carried over first.

So: $\boxed{2} \times \boxed{3} + \boxed{6} = \boxed{12}$

$\boxed{2} \times \boxed{3} \star + \boxed{6} = \boxed{18}$



	+	2	-		=	4
+		x		x		
5	+		+		=	12
x		-		+		
	+		x	7	=	28
=		=		=		
28		10		14		

Puzzle 50

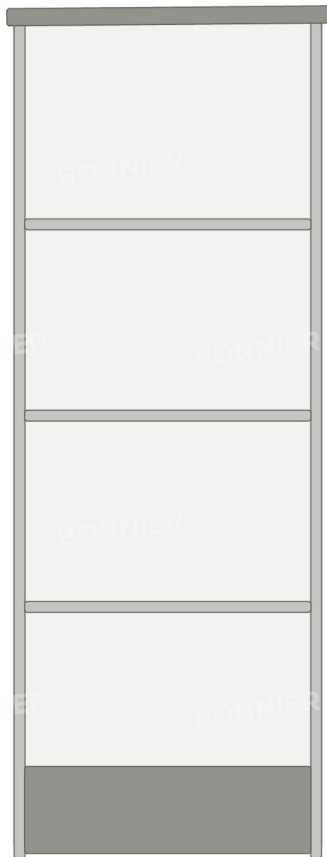
MERLIN'S LIBRARY

Merlin has asked Arthur to sort his library, but being a magical library, the shelves have very specific rules.

The books must be sorted alphabetically.

Going from top to bottom, each shelf must contain more books than the previous one.

However, no two shelves can contain the same number of books.



MACGUFFINS

Abracadabrarist's Cookbook

Cauldrons and Their Upkeep

EVERYTHING THEY TEACH YOU IN WIZARDING SCHOOL

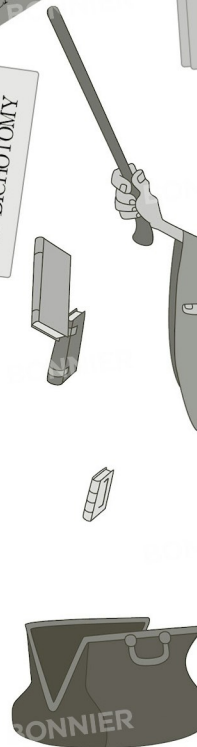
Good Castlekeeping

Everything They Don't Teach You in Wizarding School

FIFTEEN THINGS TO DO WITH A NEVER-ENDING HANDKERCHIEF

HOW TO MAKE KINGS AND EDUCATE PEOPLE

DOS AND DON'TS OF DICHOTOMY

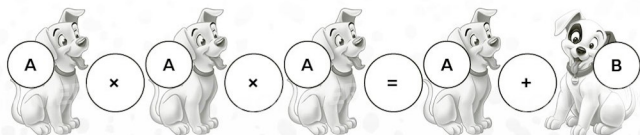
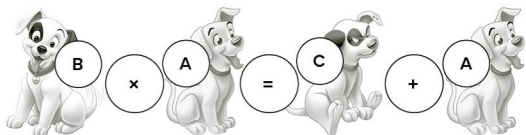
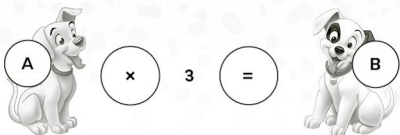


Puzzle 51

A SPOT OF BOTHER

Oh no! These Dalmatian puppies have lost their spots! Look at these sums to figure out how many spots each puppy has, and how many they should have all together!

What is $A+B+C$?

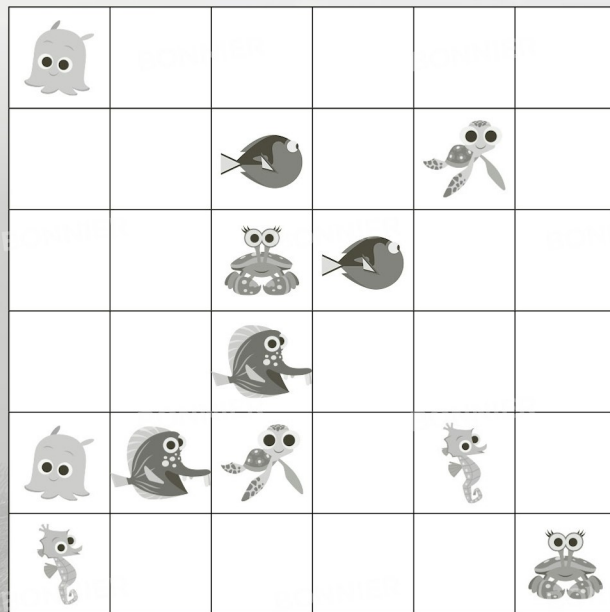


Puzzle 52

FINDING FRIENDS

Each of the sea creatures in this grid has lost their friend!

Draw lines connecting each pair to reunite them. The lines can go horizontally or vertically (never diagonally) and must not cross over each other.



Puzzle 53

RINGING THE CHANGES

Victor, Hugo, and Laverne are playing a game in Notre Dame's bell tower.

Can you fill in all the empty squares on the cathedral with numbers from 1 to 9 so that each horizontal block adds up to the clue on its left, and each vertical block adds up to the clue on the top?

An example of how to complete these puzzles is below. Notice how the numbers add up.

	4	2	
3			
3			

	4	2	
3	1	2	
3	3		

	12	38		23	31		
5							29
7			17				
			16				
35							
23							
	8			12			
	9			17			



Puzzle 54

THE CONTRAPTION CONUNDRUM

Belle's father has built another of his crazy inventions. This time, he has built a machine for turning 5 logs of wood into 100 logs of wood. But it's fallen apart!

Put the components back together by working out what order these actions go in to turn 5 into 100.



Puzzle 55

URSULA'S MAGIC SQUARE

Ursula's magic square is missing one last key ingredient. Can you work out what it is?

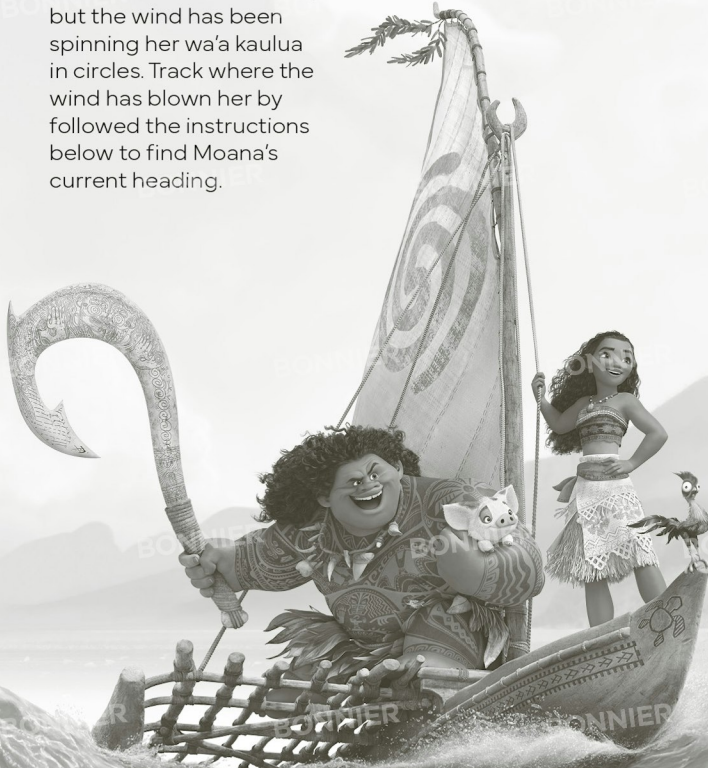
0	8	11	19	22
16	24	2	5	13
7	10		21	4
23	1	9	12	15
14	17	20	3	6



Puzzle 56

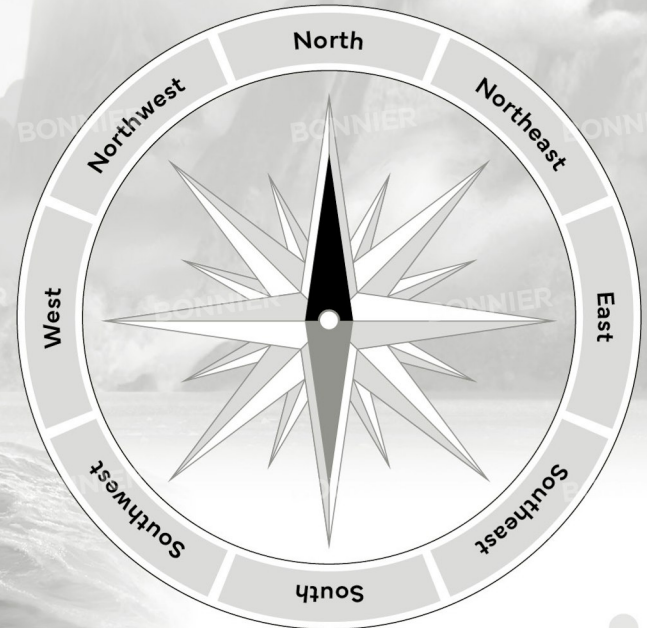
WAYFINDING

Moana is on her way to return the Heart of Te Fiti, but the wind has been spinning her wa'a kaulua in circles. Track where the wind has blown her by following the instructions below to find Moana's current heading.



Port is anti-clockwise, and Starboard is clockwise.

1. Rotate starboard 90 degrees
2. Rotate clockwise 45 degrees
3. Rotate clockwise 135 degrees
4. Rotate starboard 180 degrees
5. Rotate starboard 90 degrees
6. Rotate clockwise 365 degrees

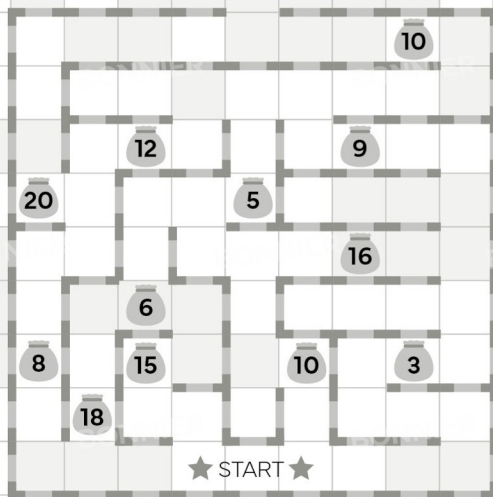


Puzzle 57

ONWARD, LEFTWARD, RIGHTWARD ONWARD AGAIN

Ian and Barley Lightfoot must find the route through the dungeon, picking up gold pieces as they go. But the only safe route is the one that will give them 36 gold pieces – no more, no less.

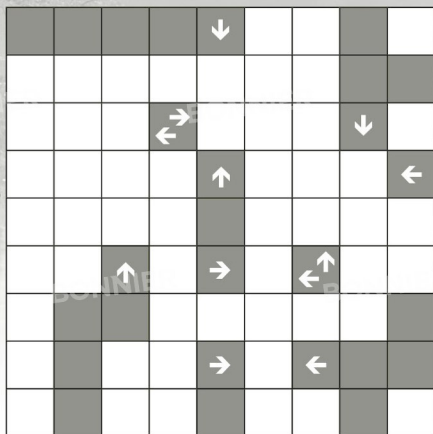
Find the safe route.



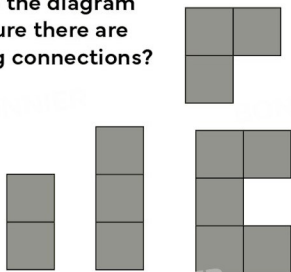
Puzzle 58

HOME IS WHERE THE ANTS ARE

Flik's ant nest home has broken apart. Can you look at the missing tunnel segments and figure out where they go?



Which of these connecting pieces need to go onto the diagram to make sure there are no missing connections?



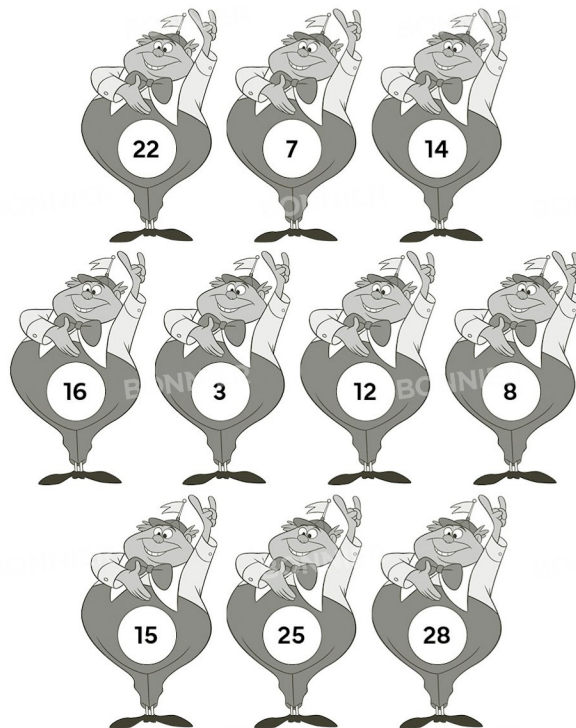
Puzzle 59

TWEEDLED UP

All of these Tweedledees and Tweedledums are mixed up.

Can you put them in the right pairs to make the totals below?

10 20 30 40 50



Puzzle 60

DO THE HUSTLE!

By adding up how much money Nick has made and subtracting his expenses, can you tell us how much Nick actually makes?

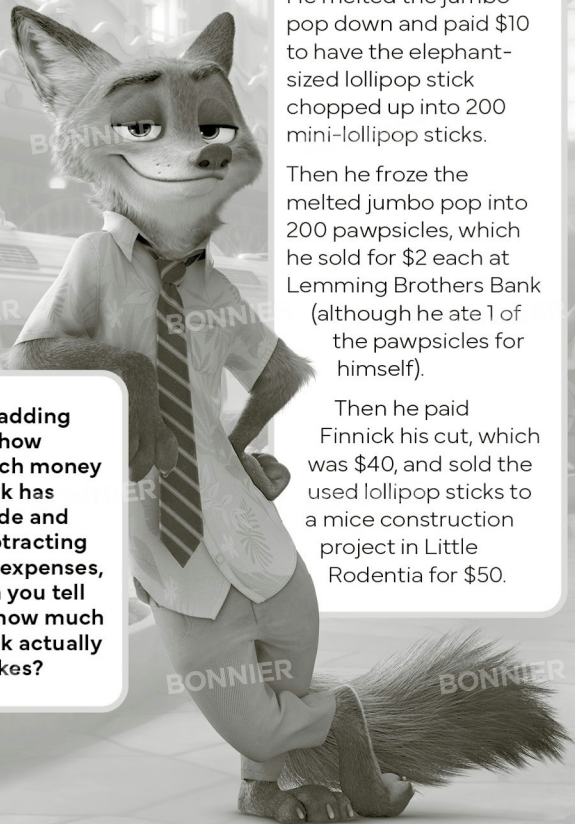
Nick Wilde says he makes \$200 a day, but is that true?

Nick has bought a jumbo pop for \$15.

He melted the jumbo pop down and paid \$10 to have the elephant-sized lollipop stick chopped up into 200 mini-lollipop sticks.

Then he froze the melted jumbo pop into 200 pawpsicles, which he sold for \$2 each at Lemming Brothers Bank (although he ate 1 of the pawpsicles for himself).

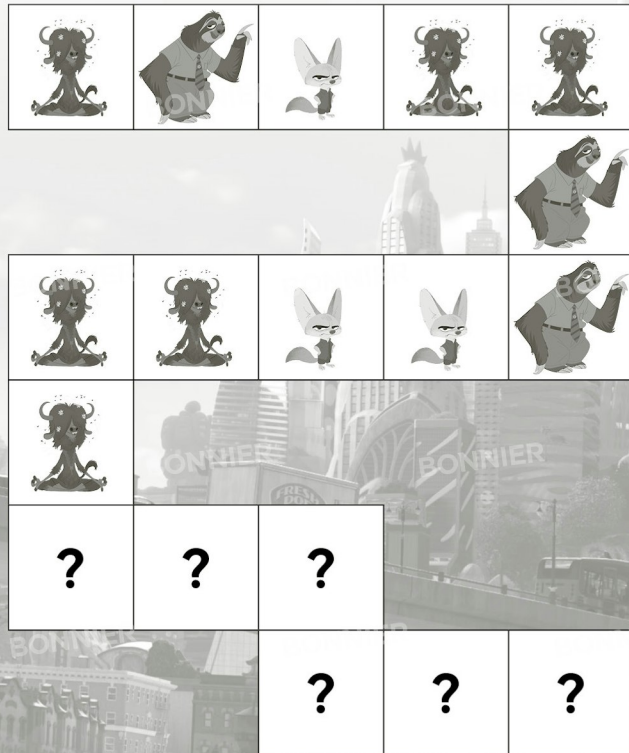
Then he paid Finnicks his cut, which was \$40, and sold the used lollipop sticks to a mice construction project in Little Rodentia for \$50.



Puzzle 61

QUEUETOPIA

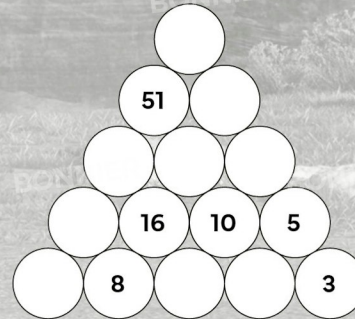
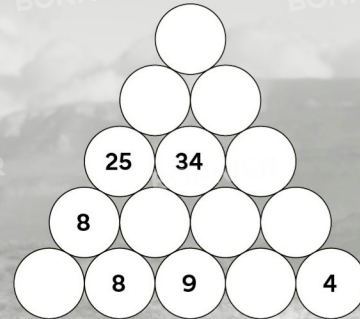
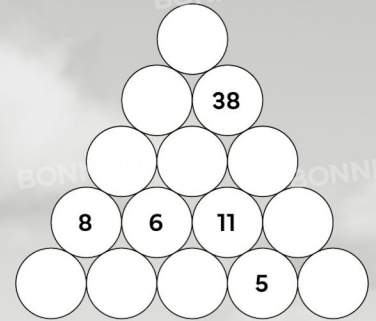
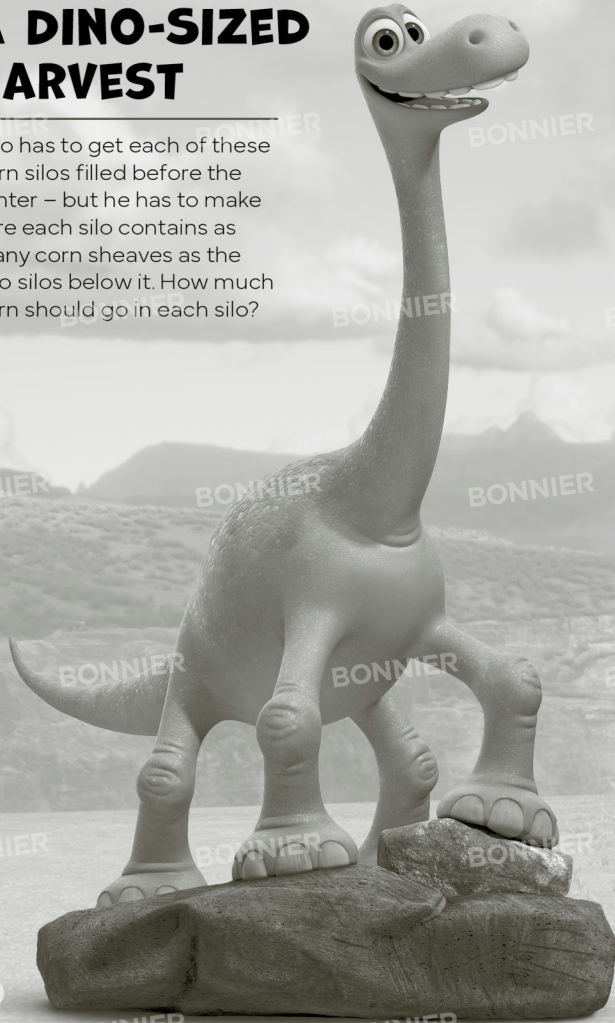
Queuing for the bus in Zootopia, you might start to notice a pattern. Can you predict how the rest of the queue will look?



Puzzle 62

A DINO-SIZED HARVEST

Arlo has to get each of these corn silos filled before the winter – but he has to make sure each silo contains as many corn sheaves as the two silos below it. How much corn should go in each silo?



Puzzle 63

ONE, TWO, THREE, FOUR!

v			
	<	2	
	^		
			2

Colonel Hathi and his elephant troop are on the march! Can you help them line up in the correct formations?

Place the numbers 1 to 4 in the grid so that each row and column contains each number once only. The 'bigger than' signs show that one number is bigger than another, so

4 > 3 or 2 < 4 is OK, but

1 > 3

is not.



Puzzle 64

RATATOUILLE FOR ALL!

Remy's Ratatouille recipe serves 4 people. But now 2 more people are coming to dinner! **Correct the recipe so that there is enough for everyone to eat.**

Use this space if you need to work it out on paper.



- 2 aubergines
- 3 medium courgettes
- 2 red peppers
- 2 tbsp olive oil
- 1 large onion, finely diced
- 3 garlic cloves, crushed
- 2 cans of chopped tomatoes



STEP 1

Cut up the courgettes, aubergines, and peppers into 3cm chunks. Heat the olive oil in a large frying pan over a medium heat. Throw in the onions and fry for 10 mins until soft and a bit see-through. Add the other chopped up vegetables, then turn the heat up high and fry everything for 10 minutes more until everything is soft.

STEP 2

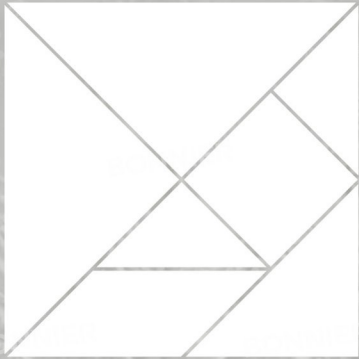
Stir in the garlic and mix everything together, frying it for 1 more minute. Tip in the chopped tomatoes and half a can of water (about 200ml). You can also add some dried herbs and chopped basil here.

Turn the heat down to medium and let everything simmer, stirring occasionally. When the vegetables are tender and coated in the tomatoes, add a bit of salt and pepper, a splash of vinegar and a little bit of sugar to balance to the tomatoes. Serve with pasta or crusty bread.

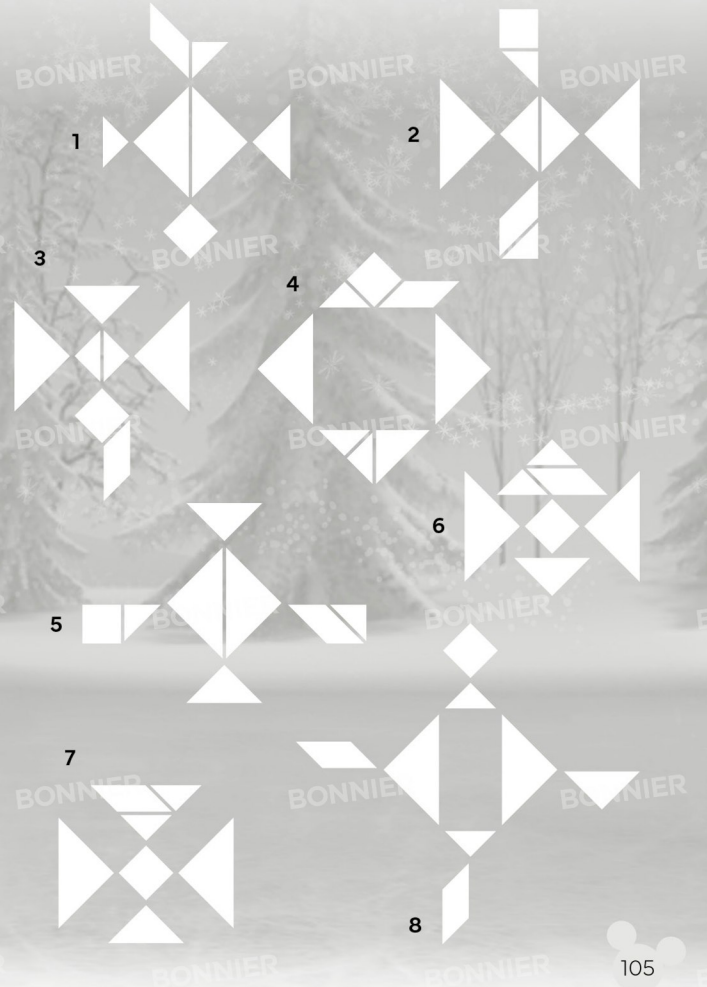
Puzzle 65

SNOWFLAKE SEARCH

Elsa has made some snowflakes whose parts fit together exactly to make the square below.



Looking at these snowflakes, can you spot which ones Elsa didn't make? They are the ones that can't be made from this square.



Puzzle 68

HUNNY HUNT

Pooh has left four jars of honey somewhere in the Hundred-Acre Wood – but luckily he's left himself a map!

Can you guide him to find each one?

Each square on the map represents one hundred paces. The honey is in four locations:

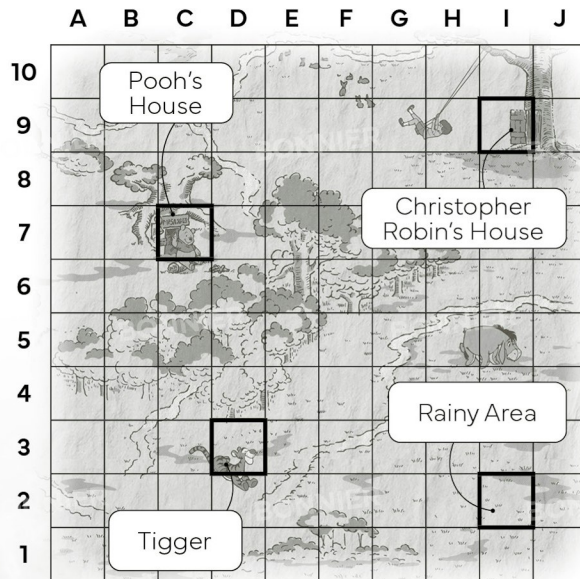
One hundred paces East of Pooh's house.

One hundred paces south of the Rainy area.

Two hundred paces west of the Christopher Robin's House.

Three hundred paces west of the Tigger.

Write down the coordinates of each of the four jars of honey.

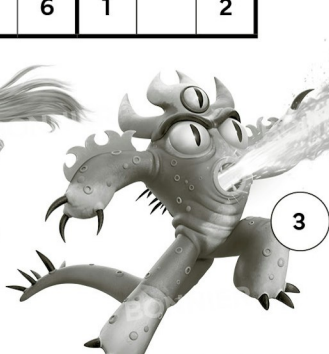
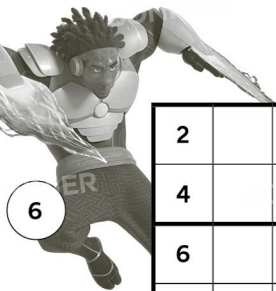
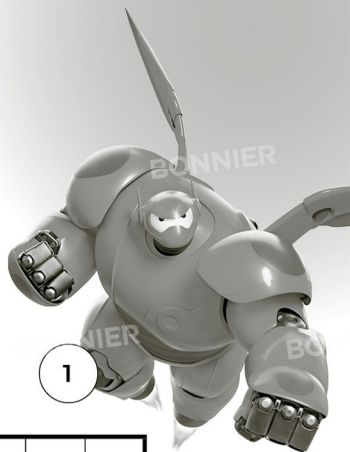


Puzzle 69

BIG HERO SIXDOKU!

To assemble your super team, fill in every square of this grid with the number of one of the Big Hero Six, so that no numbers repeat on any line horizontally or vertically.

2		3			
4			2		
6				3	1
3				2	4
		2			
5		6	1		2



Puzzle 70

KENAI'S SALMON RUN

Every day of the salmon run Kenai manages to catch more salmon than the day before. **By looking at the pattern, can you tell how many salmon Kenai ate on the missing day?**

Monday:



Tuesday:



Wednesday:



Thursday:



Friday:



Saturday:

Sunday:



Puzzle 71

ONWARDS AND UPWARDS!

Russell is trying to get his Sudoku badge! **Can you help him get the grade by filling in this Sudoku?**

Each square on the grid contains a number from 1 to 9, but the numbers must never repeat on any line, horizontally or vertically. The sudoku is also divided into 9 3-by-3 blocks, and those squares can't contain any repeated numbers either.

		5			6	4		
			2				6	5
2		6	7	5				8
5	7	9		6			4	2
			9					6
	6			2	5	1	9	
1			3					7
6					1	9	3	
3			6	8				1



Puzzle 72

SCREAM SQUARES

Henry J. Waternoose wants to make sure that all the doors on the Scream Floor are producing enough power. Can you complete this number square to check the output of each door? **Fill all empty squares so that the numbers 1 to 6 appear exactly once in each row and column. The numbers in each block should produce the result shown in the top-left corner of the block according to the symbol appearing on the top of the grid.**

For instance, in this example the number in the corner is 4, and the symbol is +, so you need to fill in the numbers 2, 1 and 1 that add up to 4.

4+		
2	1	
1		

13+	5÷		1-	3	13+
2	3-	6+	1	6	
			24×		3
12×		11+	12+	1	120×
	11+		6		4
4	5		6+		

Puzzle 73

FEED OUR GUESTS!

Lumière has laid on a fabulous menu for everyone at the castle breakfast, but now that he has everyone's orders, he needs to make sure the kitchen has enough of everything.

How much of each breakfast food does Lumière need?



The Beast

- 3 Toast
- 2 Bacon
- 1 Eggs
- 1 Sausages
- 3 Croissant

Belle

- 2 Toast
- 5 Bacon
- 2 Eggs

Mrs. Potts

- 1 Toast
- 8 Bacon
- 6 Croissant



Chip

- 1 Sausages
- 2 Eggs
- 1 Croissant

Lumière

- 1 Toast
- 1 Bacon



Cogsworth

- 2 Sausages
- 4 Eggs
- 3 Croissants



Toast: ____

Bacon: ____

Eggs: ____

Sausages: ____

Croissant: ____

Puzzle 74

INFLATING NUMBERS

Carl has tied four balloons to his house.

Every day, he adds twice as many balloons as he added the day before.

If it took 100 balloons for the house to float away, how many days until Carl's house takes off?

Use this space if you need to work it out on paper.

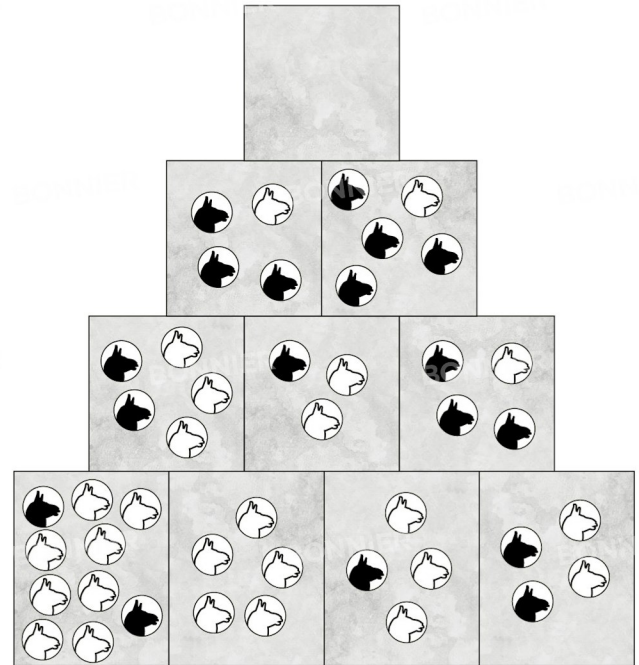


Puzzle 75

THE EMPEROR'S NEW ZIGGURAT!

Kuzco is building his new palace, and what better way to finish it off than a giant, llama-themed ziggurat?

The construction is nearly finished, but there is one block missing. **Can you follow the pattern to work out how many llamas of each colour should appear on the top block?**



Puzzle 76

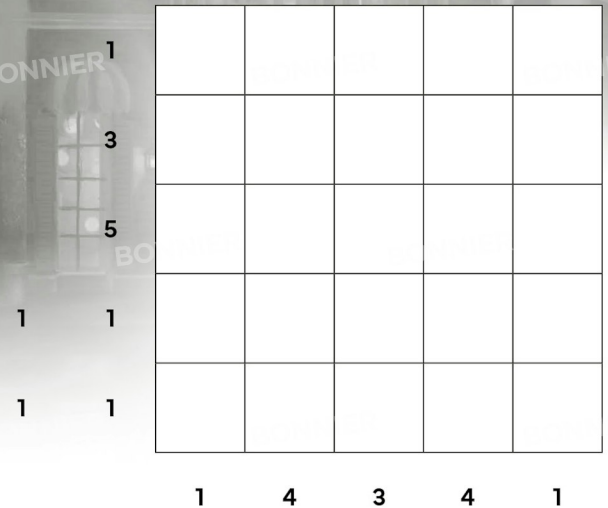
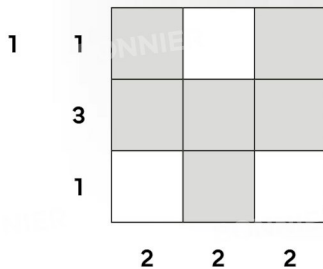
DIG A LITTLE DEEPER!

Tiana's looking to build her new restaurant, but she'll have to dig a little deeper to understand these blueprints!

Along the left-hand side of this grid are numbers showing how many blocks are coloured on each row.

Along the bottom the numbers show how many blocks are coloured on each column.

Here's a simple example of a completed puzzle:

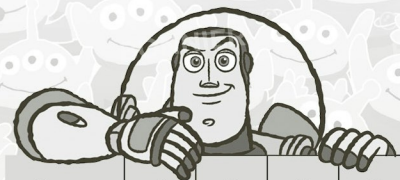


Puzzle 77

BUZZ LIGHTYEAR AMONG US!

Buzz Lightyear has fallen into one of the Alien's claw machine games!

We don't know which of the four games Buzz fell into, but to help the Little Green Men have counted up all the arms, legs, eyes and stalks in each game. Where is Buzz?



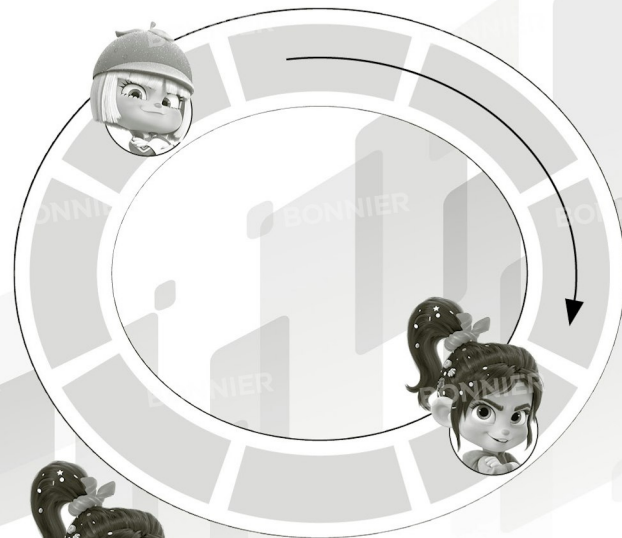
Game	A	B	C	D
Eyes	45	35	36	27
Stalks	15	11	12	9
Arms	30	24	18	18
Legs	30	24	18	18



Puzzle 78

CANDY CATCH UP

Vanellope von Schweetz and Taffyta Muttonfudge are having a race, and Taffyta is in the lead! If Taffyta advances 3 segments each turn, and Vanellope advances 5 segments, how many turns will it take for Vanellope to overtake her?



Puzzle 79

WISHFUL THINKING

Everyone who lives in the palace has got hold of the Genie's lamp and made a wish, in the following order. If the wishes come true in the order that they were wished, what does everyone get from the wish?

1 I want to have 1,000 gold coins for every human that lives in the palace.

2 "I wish to be as rich as the Sultan."

3 "I want a million bananas."

4 I want to be twice as rich as Aladdin.

5 "I wish Jafar didn't live in the palace."

6 "I want to be as rich as everyone else in the palace put together!"

Sultan: _____

Aladdin: _____

Abu: _____

Jafar: _____

Jasmine: _____

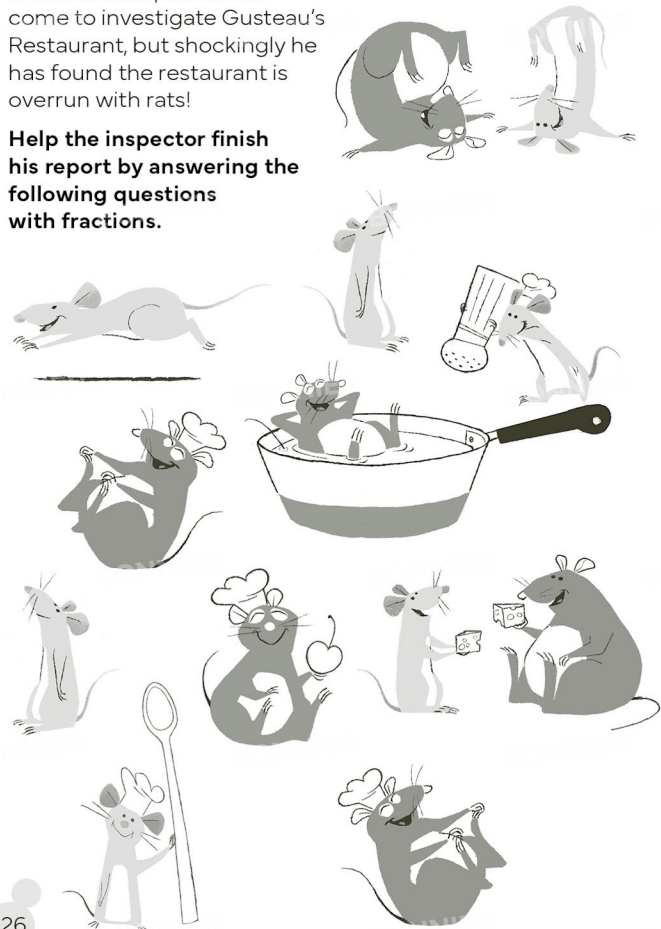
Iago: _____

Puzzle 80

RESTAURANT INSPECTION!

The health inspector has come to investigate Gusteau's Restaurant, but shockingly he has found the restaurant is overrun with rats!

Help the inspector finish his report by answering the following questions with fractions.



- What fraction of the rats are white?
- What fraction of the rats are wearing chef hats?
- What fraction of white rats are wearing chef hats?
- What fraction of black rats are not wearing a chef hat?



Puzzle 81

FIX IT FOR FELIX!

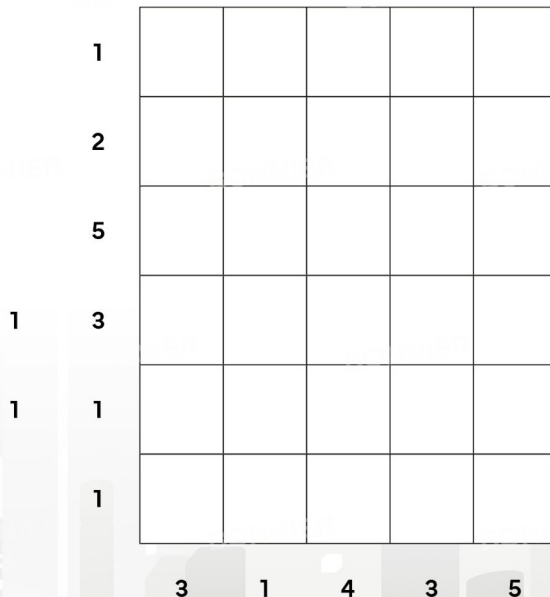
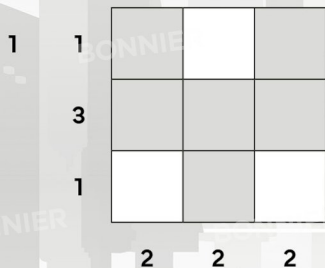
Felix's hammer is broken!

Can you solve this puzzle to put the pixels back together and mend it again?

Along the left-hand side of this grid are numbers showing how many blocks are coloured on each row.

Along the bottom the numbers show how many blocks are coloured on each column.

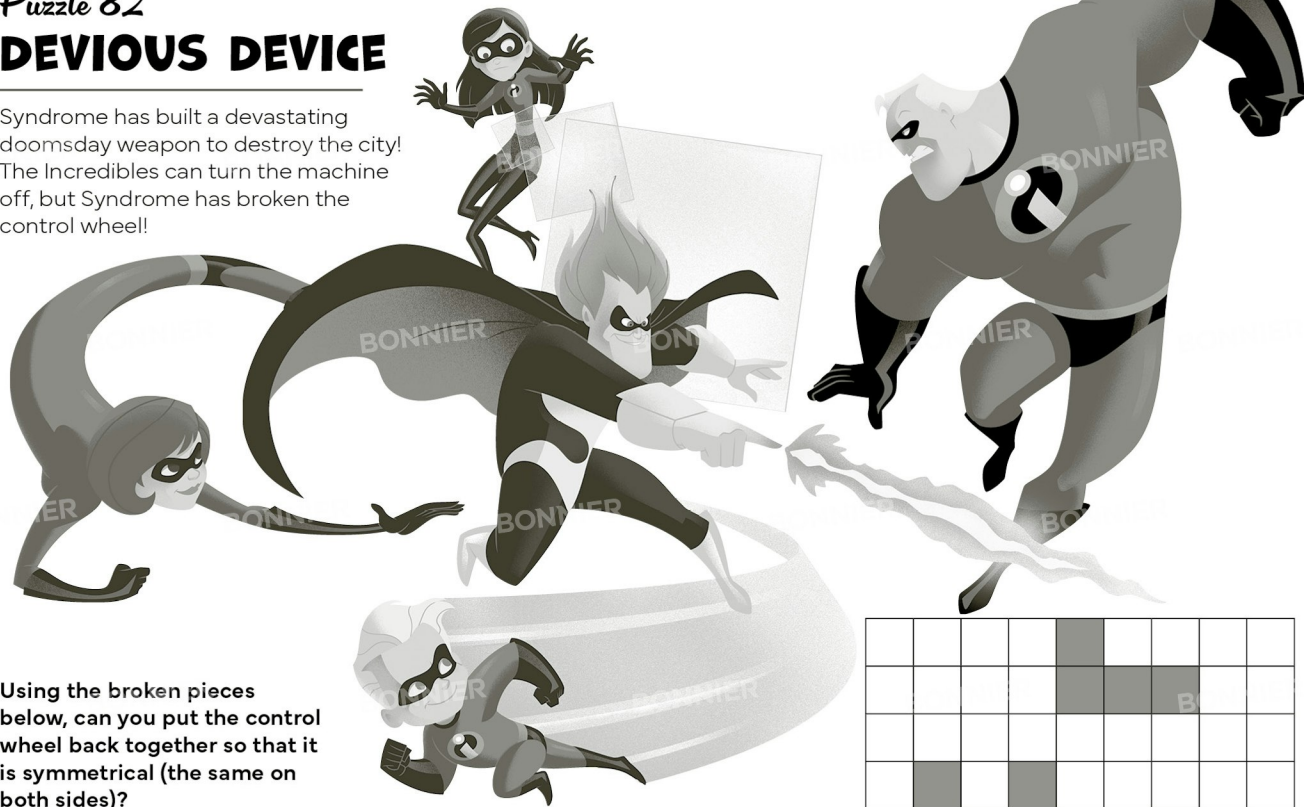
Here's a simple example of a completed puzzle:



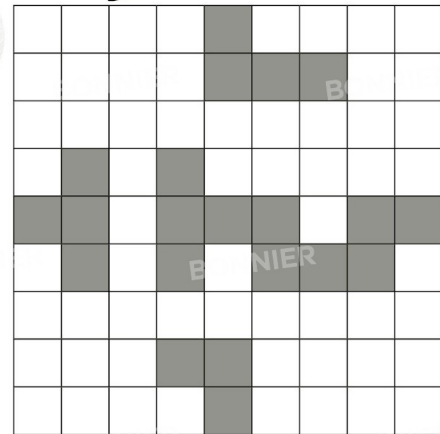
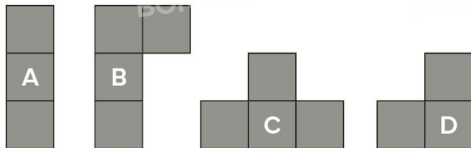
Puzzle 82

DEVIOUS DEVICE

Syndrome has built a devastating doomsday weapon to destroy the city! The Incredibles can turn the machine off, but Syndrome has broken the control wheel!



Using the broken pieces below, can you put the control wheel back together so that it is symmetrical (the same on both sides)?



SNOW WHITE'S CUPCAKES

One day the Seven came home to find Snow White had baked 28 cupcakes. Each of the Seven had a different idea about how the cupcakes should be shared out.

Who was the fairest of them all?



You each take 3 cakes, and I'll have what's left over.



I will take 3 cakes, then Sleepy, then Dopey, and keep going until we run out.



Let's all have 3 cakes and throw the rest out.



I will take four cakes, then Dopey takes 4, then Happy, and so on until there are no cakes left.



You each take $\frac{1}{8}$ of the cakes, and I'll have what's left over.



We all have 2 cakes and I'll keep the rest.



I will take 5 cakes, then Doc can take 5, then Sneezy and so on until there are no cakes left.



Puzzle 84

FLIK NICKS PICNICS

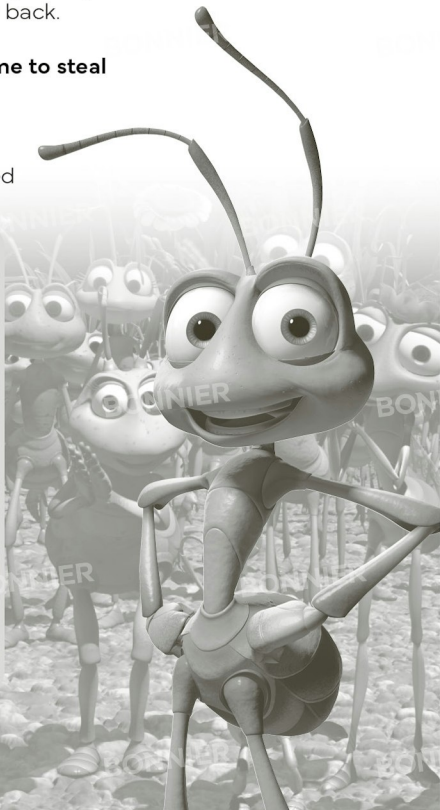
Flik has discovered this delicious picnic – and the humans have left it alone!

Flik has brought 30,000 ants with him. 200 ants make a gram, and each ant can carry 6 times its own weight.

The humans are gone long enough for the ants to make two trips to the nest and back.

Do they have enough time to steal the whole picnic?

Use this space if you need to work it out on paper.



Puzzle 85

SETTING TABLES (AND GRAPHS!)

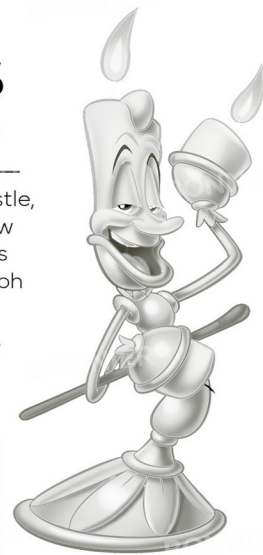
To set the tables for dinner at the castle, Lumiere has drawn up a graph of how many plates, knives, forks and spoons he will need. Each picture on the graph represents 10 of that object.

Please finish the graph to show how much of everything is needed.

There are twice as many knives and forks as plates.

20 people will have soup spoons.

There are 30 glasses.



Plates



Knives and forks



Glasses



Soup Spoons



Puzzle 88

A WALK ON THE BEACH

Ariel, Sebastian and Max go to the beach. Each of them walks for 15 steps, but the tide has washed up on their footprints and made it impossible to see whose footprints belong to who.



Can you work out
which trail of footprints
belongs to which person
based on how many
footprints they left?



Puzzle 89

DOING TIME

Lightning McQueen has been ordered to re-tarmac the entire road at Radiator Falls. If he starts at 10am today, Lightning has worked out that it will take him 150 hours to tarmac the entire road.

How many days will it be until he's finished?

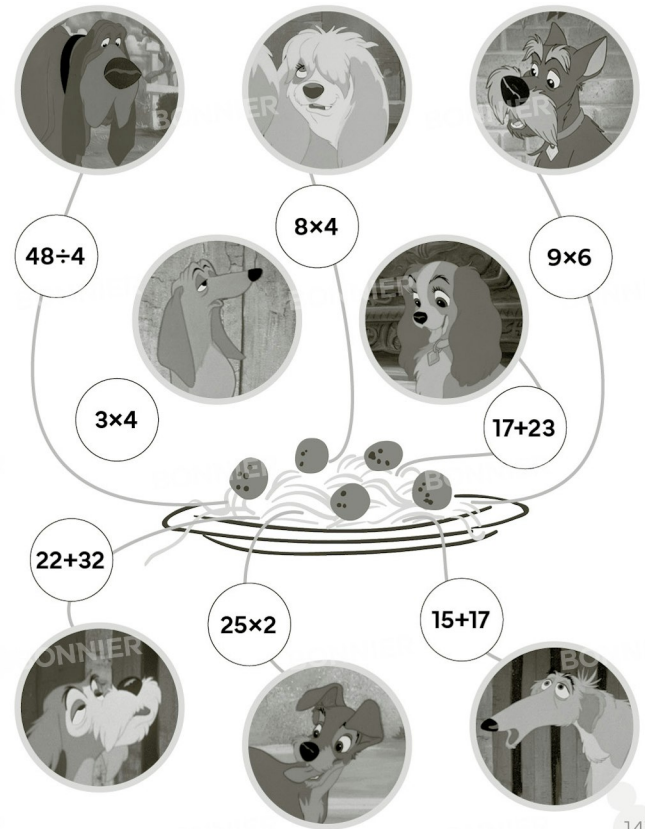
What time will it be when he's done?



Puzzle 90

SPAGHETTI JUNCTION

All the dogs are sharing a nice big bowl of spaghetti. But which dogs are sharing a strand? **Work out which pairs of dogs have sums that add up to the same number to pair them up!**



Puzzle 91

SOUL SURVIVOR

Jerry is taking a census of all the newly arrived souls before they are sent on to the Great Beyond. **Can you help Jerry answer all of their questions in fractions?**



What fraction have hair?

What fraction are wearing a hat?

What fraction are wearing glasses?

What fraction of ones wearing a hat are not wearing glasses?

What fraction of ones with hair are not wearing glasses?

Puzzle 92

SHIP AHOY!

Peter Pan has spotted a ship coming!

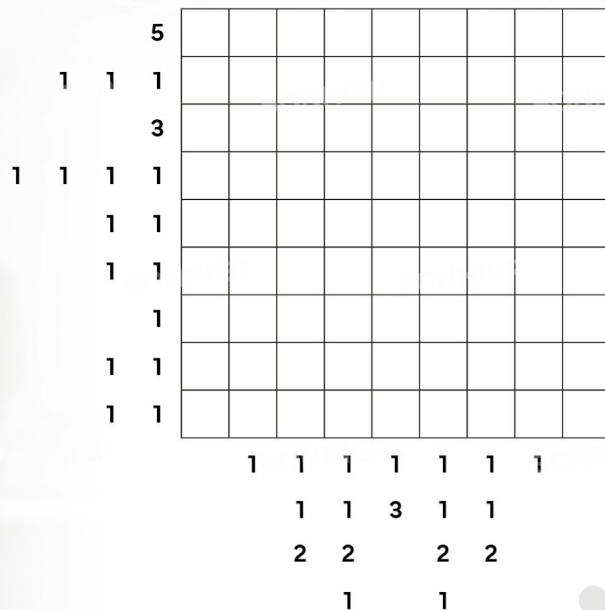
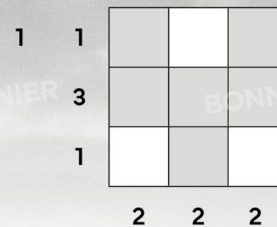
Solve this nomogram to identify the ship's flag and see if it is friend or foe!



Along the left-hand side of this grid are numbers showing how many blocks are coloured on each row.

Along the bottom the numbers show how many blocks are coloured on each column.

Here's a simple example of a completed puzzle:

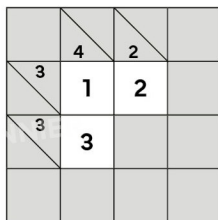
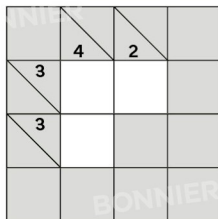
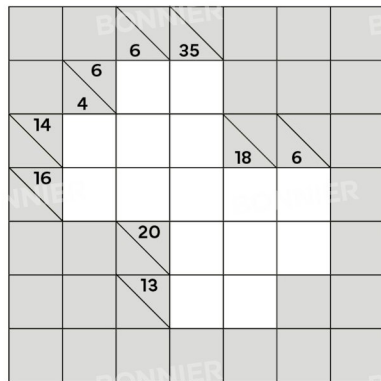


Puzzle 93

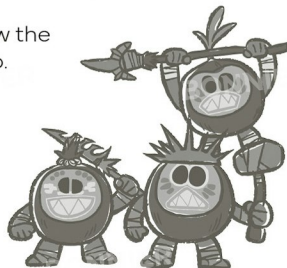
KAKUROMORA!

The Kakamora have arrived! And they are demanding you complete their fiendish Kakuro puzzles before they will let you go!

Fill in all the empty squares with numbers from 1 to 9 so that each horizontal block adds up to the clue on its left, and each vertical block adds up to the clue on the top.



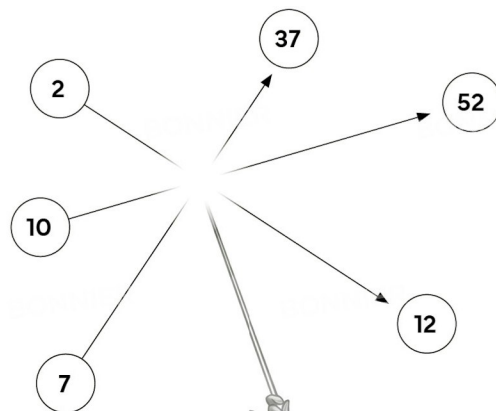
An example of how to complete these puzzles is to the right. Notice how the numbers add up.



Puzzle 94

BIBBIDI-BOBBIDI-WHAT?

What spell is the Fairy Godmother casting on these numbers? **Can you work it out?**



Puzzle 95

MADAM MIM'S MISCHIEF

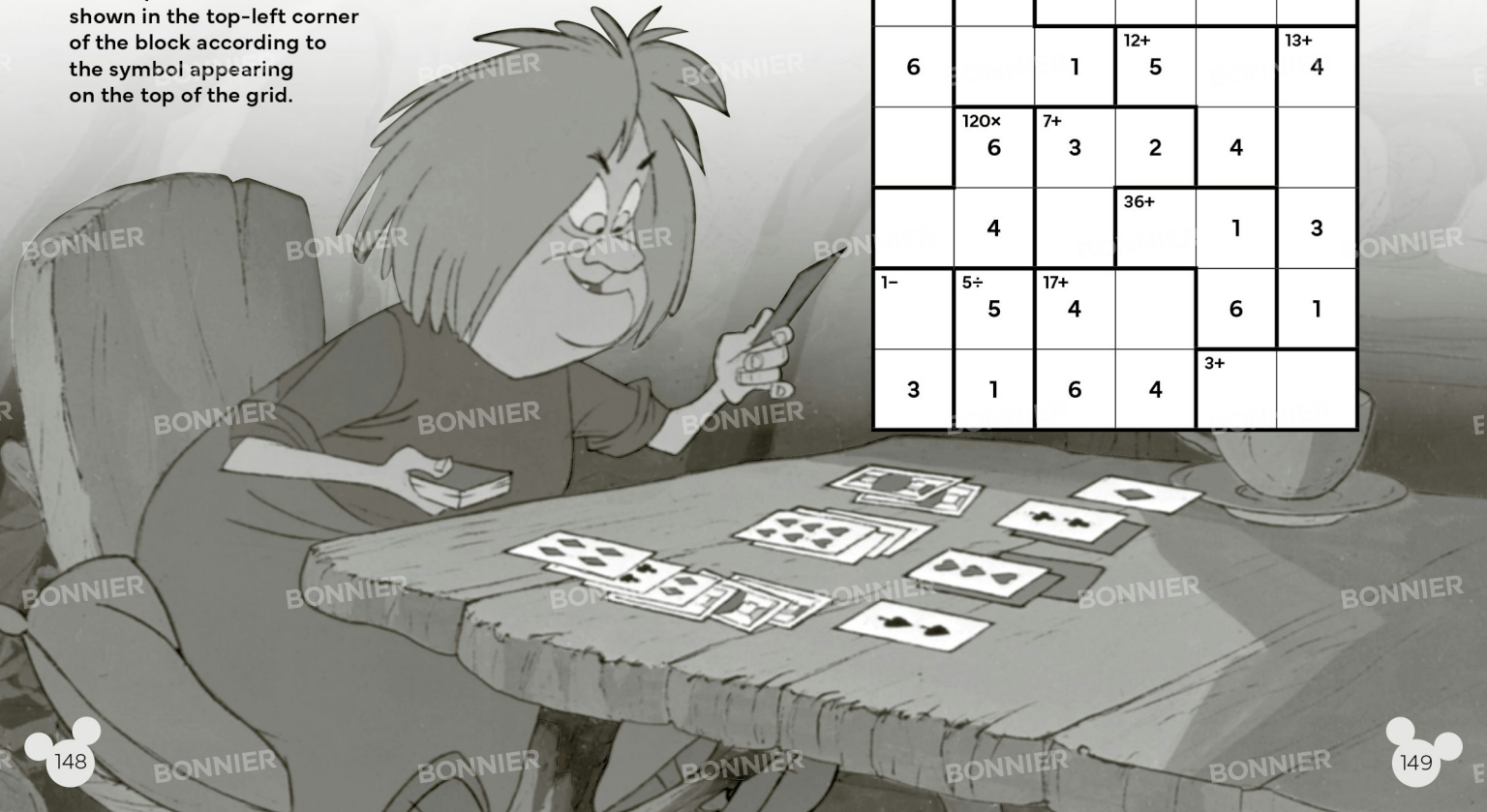
Can you solve Madam Mim's mischievous number square?

Fill all empty squares so that the numbers 1 to 6 appear exactly once in each row and column. The numbers in each block should produce the result shown in the top-left corner of the block according to the symbol appearing on the top of the grid.

For instance, in this example the number in the corner is 4, and the symbol is +, so you need to fill in the numbers 2, 1 and 1 that add up to 4.

4+	2	1
1		

11+	11+		1		6
4	3				
6		1	12+	5	13+
					4
	120×	7+	2	4	
	6	3			
	4		36+	1	3
1-	5÷	17+		6	1
	5	4			
3	1	6	4	3+	



Puzzle 96

TO INFINITY AND BEYOND AND BACK AGAIN



Buzz Lightyear is carrying out a test flight for his powerful new spaceship engine.

Can you work out how long it took him to complete these flights to the planet's nearest moon and back?

Left	Arrived	Journey Time
14:47	16:56	
01:50	13:54	
19:24	07:53	

Now Buzz is testing out the new, experimental hyperspace engine. This engine can travel much faster than before, but because he's travelling so fast, time seems to pass half as quickly aboard his spaceship as it does for the colony at home.

Can you work out how long these journeys took from Buzz's point of view?

Left	Return	Buzz's Journey Time
18:44	05:52	
09:34	15:16	
10:01	14:29	

Puzzle 97

CAN YOU WAIT TO BE KING?

It is the Dry Season in the Pride Lands, and Simba just can't wait to be king! The Pride Lands have four seasons a year – the Dry Season, the Short Rainy Season, the Dry and Hot Season and then the Long Rainy Season.

Zazu says Simba will not become King until 17 seasons have passed.

How many years will it be until Simba is king of the Pride Lands? And what season will it be?



Puzzle 98

THE NOT-SO-GREAT ESCAPE

These nefarious villains have all been locked up in the same jail. But now several of them are teaming up to form an escape plan!



Escape Plan

STEP ONE: Steal the jail key through the window of the guard's office. The window is 15 inches high.

STEP TWO: Reach the lock at the top of the 12-foot-tall gate. We might have to stand on each other's shoulders.

STEP THREE: Hide in the luggage compartment at the back of the delivery truck. The compartment is 12 feet and five inches long.

REMEMBER: If more than three prisoners try to escape at once, someone will notice, so pick your team carefully!

Which three villains should team up to escape?

Puzzle 99

CURRENT EVENTS

Ariel is swimming through the ocean currents, which are not always visible from the surface.

Can you trace Ariel's journey by filling in her path below?

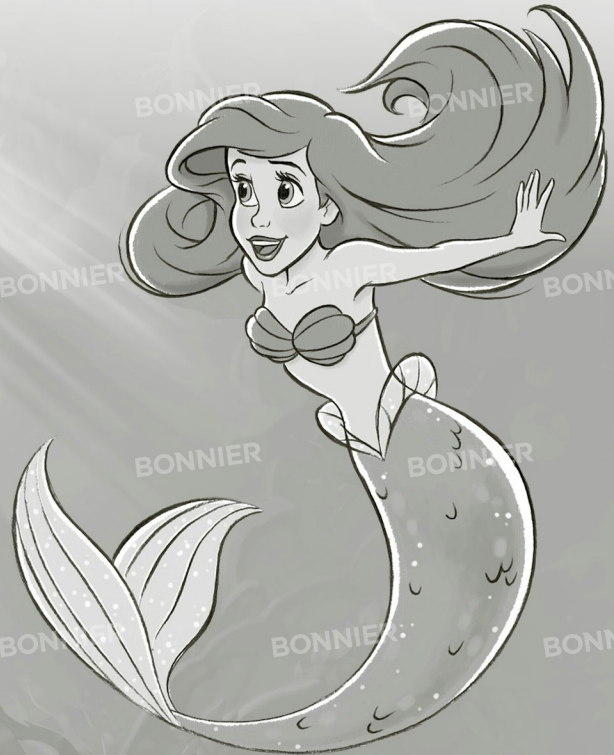
Follow the path beginning at number 1 and tracing it through 2, 3, and 4 continuing all the way to number 25. However, not all the numbers are visible, so you will have to deduce where they go.

Use only horizontal and vertical paths – never go diagonal.

		3		21
6				
			18	
		10		
13				25

Here's an example solution going from 1 to 16 to show how it works.

8	7	4	3
9	6	5	2
10	13	14	1
11	12	15	16

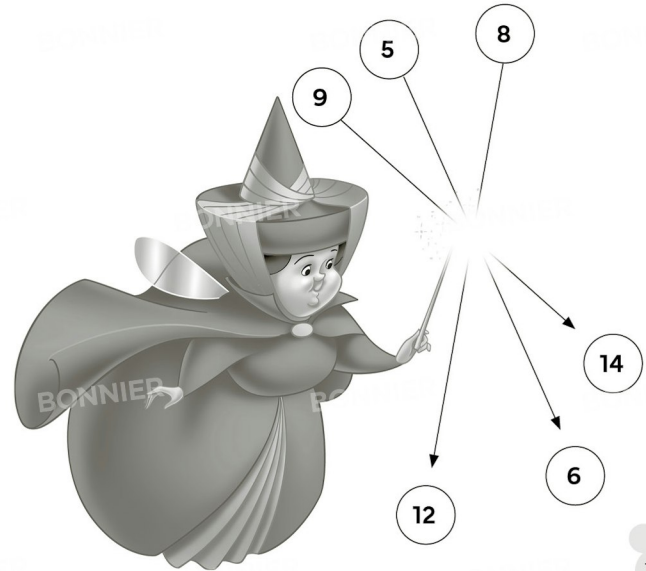
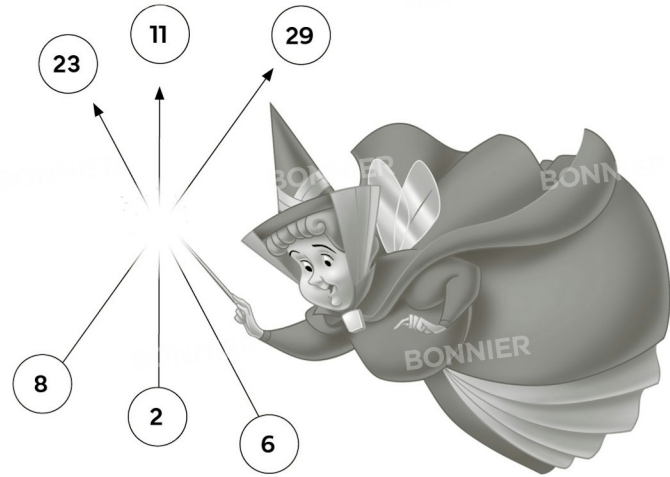
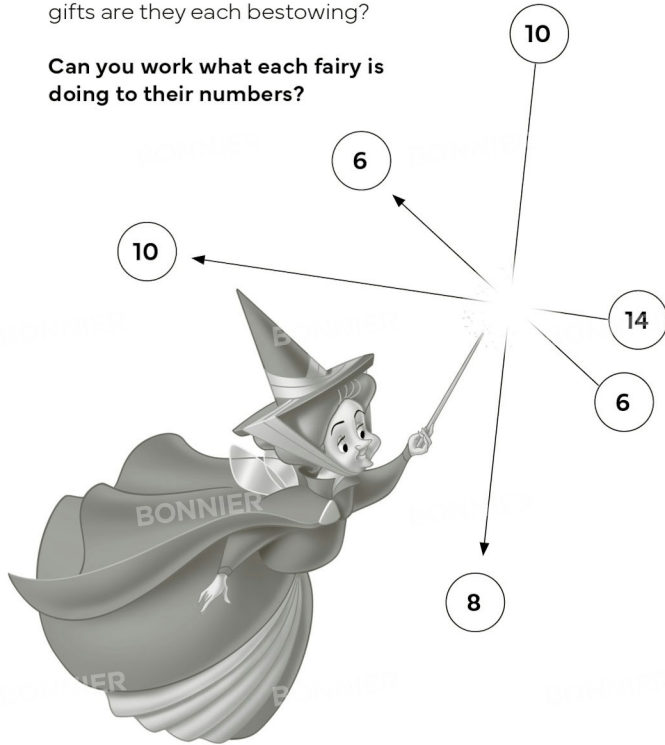


Puzzle 100

PARTING GIFTS

Fauna, Flora and Merryweather are all bestowing magical gifts on these numbers. But what gifts are they each bestowing?

Can you work what each fairy is doing to their numbers?





Puzzle 1
RUNAWAY WALL•E!

Answer 1: Forward 3, Turn left, Forward 8, Turn right, Forward 5

Answer 2: Forward 5, Turn Left, Forward 4, Turn Right, Forward 3, Turn Left, Forward 3

Puzzle 2
THE CAT'S WHERE IT'S AT

3	+	6	-	8	=	1
+		+		-		
7	+	1	+	2	=	10
+		-		+		
4	-	5	+	9	=	8
=		=		=		
14		2		15		

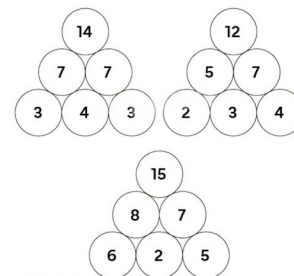
Puzzle 3
A STITCH IN TIME
Mischievous

Puzzle 4
LIGHT WORK
After 19 nights

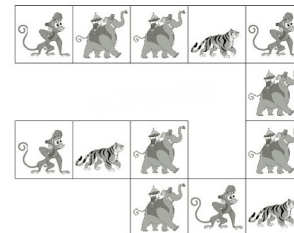
Puzzle 5
MONSTER LOADER
Loader 1: Terry and Don
Carlton
Loader 2: Art and Scott
Loader 3: Sulley and Mike

Puzzle 6
GASTON'S FEATS OF STRENGTH!
1,4,4
3,6,0

Puzzle 7
PRIDE ROCK ASCENT



Puzzle 8
PRINCE ALI'S PARADE



Puzzle 23
SHY COCONUTS

3+70=73
41-6=35
63÷7=9
2+35=37
15-3=12

Puzzle 24
BINAR-E

0	1	0	0	1	1
1	1	0	0	1	0
0	0	1	1	0	1
1	0	1	0	1	0
0	1	0	1	0	1
1	0	1	1	0	0

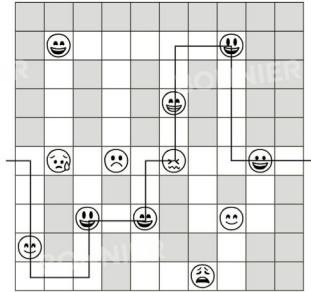
Puzzle 25
MAMA ODIE'S MEDICINAL GUMBO

A=6 shots of tabasco
B=10 shots of tabasco
C=4 shots of tabasco
C+C+C=12 shots of tabasco
B+A-C=12 shots of tabasco

Puzzle 26
FELIX'S FRENZY!

2 Lives

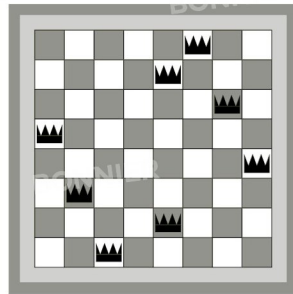
Puzzle 27
THINK HAPPY THOUGHTS!



120 feet high.

Puzzle 28
EIGHT QUEENS

Here is one way to do it:



Puzzle 29
ARCHERY PRACTICE

27: 19+2+6
14: 7+3+4
42: 19+17+6

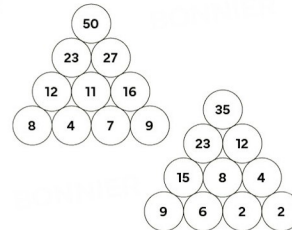
Puzzle 30
ALARMED LLAMA!

They can make it to the top- their combined length is 7 squares or 560cm. (70cm+70cm for Kuzco's front and back legs+190cm for his body+150cm for Pacha from feet to shoulder+70cm for his arms)

Puzzle 31
THE MANE EVENT
4 Turns

Puzzle 32
SQUARE PARTS
11 squares
19 equilateral triangle
22 four-sided shapes
11 isosceles triangle

Puzzle 33
SNOWBALL STOCKPILE



Puzzle 34
JUNGLE JUMBLE
6, 7

Puzzle 35
LOST BOY BIRTHDAYS
Slightly=9
Nibs=7
Tootles=5
Nibs+Slightly+Tootles=21
Slightly x Nibs=63

Puzzle 36
DIRECTIONS DILEMMA
The correct order is:
16, 32, 2, 9, 18, 8, 4, 16

Puzzle 37
CAR PARK PATTERNS



Puzzle 38
THE GREATEST ARCHER IN NOTTINGHAM
3=9÷3
2=10-8
10=2x5
21=7x3

Puzzle 39

MICKY'S MAGICAL MIX UP!

	6		5		4	
	=		=		=	
-3	=	9	-	2	+	4
	=					11
	-		-		-	
-6	=	8	-	1	-	3
	=					4
	+		+		+	
6	=	7	+	6	-	5
	=					8
	=		=		=	
	8		7		6	

Puzzle 40

...AND THE KITCHEN SINK

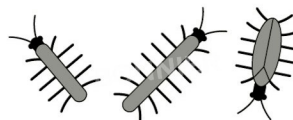
512 dishes

Puzzle 41

BUG BUFFET!

Pumba gets the most bugs.

These bugs are left:



Puzzle 42

X MARKS THE SPOT!

B7, E8, E6, H6

Puzzle 43

HI HO, HI HO

Seven!

Puzzle 44

WHEN IN ROME

IV+V= XI

III+II= V

VIII+II= X

Puzzle 45

BAYMAX'S SHOPPING LIST

100 Bottles of Disinfectant: 4

0111 Packets of sticky

plasters: 7

1010 Lollipops: 10

Baymax's First Aid Kit

16 Rolls of bandages: 10000

13 Cold presses: 1101

14 Lollipops: 1110

12 Packets of sticky

plasters: 1100

11 Bottles of disinfectant:

1011

Puzzle 46

THIS PUZZLE WILL DRAGON AND ON...

Pentagon

Puzzle 47

TRAIL OF DESTRUCTION!

25	24	1	8	9
22	23	2	7	10
21	20	3	6	11
18	19	4	5	12
17	16	15	14	13

Puzzle 48

PRINCE JOHN'S MONEY BAGS

8+	1	5	10+	3-	30x	2	3
12+	3	2	4	1	6x	6	5
6	3	3-	5	2	1	18+	4
3-	2	4+	4	1	5	3	6
5	11+	1-	3	14+	8x	4	2
4	6	2	3	5	1		

Puzzle 49

SOLVE THE RIDDLE OF THE CAVE!

	+	2	-	7	=	4
☆		☆		☆		
5	+	6	+	1	=	12
x		-		+		
2	☆	2	x	7	=	28
=		=		=		
28		10		14		

Puzzle 50

MERLIN'S LIBRARY

Shelf 1: Empty

Shelf 2: Abracadabrarist's Cookbook ; Cauldrons and their Upkeep

Shelf 3: Do's and Don'ts of Dichotomy ; Everything They Teach You In Wizarding School ; Everything They Don't Teach You in Wizarding School

Shelf 4: Fifteen Things To Do With a Never-Ending Handkerchief ; Good Castlekeeping ; How to Make Kings and Educate People ; Macguffins

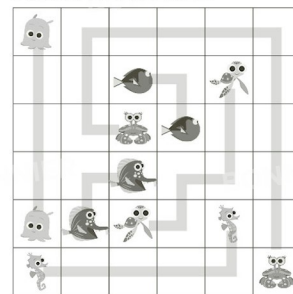
Puzzle 51

A SPOT OF BOTHER

A=2, B=6, C=10, A+B+C=18

Puzzle 52

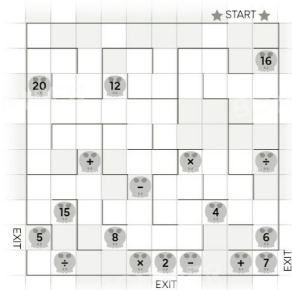
FINDING FRIENDS



Puzzle 66
**A NOT-SO-CLEAN
 GETAWAY...**

11	12	15	16	25
10	13	14	17	24
9	8	19	18	23
6	7	20	21	22
5	4	3	2	1

Puzzle 67
MAZE OF THE DEAD



Puzzle 68
HUNNY HUNT
 G9, D7, A3, I1

Puzzle 69
BIG HERO SIXDOKU!

2	1	3	4	6	5
4	6	5	2	1	3
6	2	4	5	3	1
3	5	1	6	2	4
1	4	2	3	5	6
5	3	6	1	4	2

Puzzle 70
KENAI'S SALMON RUN
 Saturday: 8

Puzzle 71
**ONWARDS AND
 UPWARDS!**

7	1	5	8	9	6	4	2	3
9	3	8	2	1	4	7	6	5
2	4	6	7	5	3	1	9	8
5	7	9	1	6	8	3	4	2
4	2	1	9	3	5	8	7	6
8	6	3	4	7	2	5	1	9
1	5	2	3	4	9	6	8	7
6	8	7	5	2	1	9	3	4
3	9	4	6	8	7	2	5	1

Puzzle 72
SCREAM SQUARES

13+	5+	5	1-	4	3	13+
6	1	5	4	3	2	
2	3-	6+	4	1	6	5
5	6	1	24x	2	4	3
12x	3	4	11+	2	12+	120x
3	4	2	5	1	6	
1	11+	2	3	6	5	4
4	5	6	6+	3	2	1

Puzzle 73
FEED OUR GUESTS!
 Toast: 7, Bacon: 16, Eggs: 9
 Sausages: 3, Croissants: 10

Puzzle 74
INFLATING NUMBERS
 Four days.

Puzzle 75
**THE EMPEROR'S NEW
 ZIGGURAT!**
 The top block should have 7 black llamas and no grey llamas. Each block has as many black llamas as the two blocks below added together, and as many grey llamas as the block on the right below subtracted from the block on the left below.

Puzzle 76
DIG A LITTLE DEEPER!

1					
3					
5					
1	1				
1	1				
	1	4	3	4	1

Puzzle 77
**BUZZ LIGHTYEAR AMONG
 US!**
 He is in Game B.

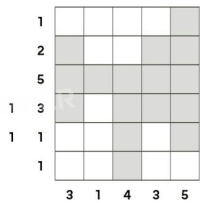
Puzzle 78
CANDY CATCH UP
 3 turns

Puzzle 79
WISHFUL THINKING?
 Sultan: 6,000 gold coins
 Aladdin: 6,000 gold coins
 Abu: 1 million bananas
 Jafar: 12,000 gold coins
 Jasmine: Nothing, but Jafar is no longer in the palace
 Iago: 12,000 gold coins and 1 million bananas (he doesn't get Jafar's gold coins because Jafar doesn't live in the palace)

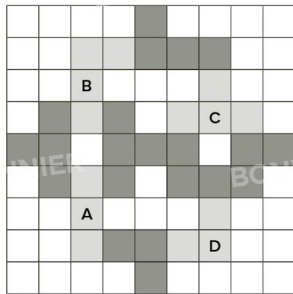
Puzzle 80
RESTAURANT INSPECTION!

What fraction of the rats are white? $\frac{3}{5}$
 What fraction of the rats are wearing chef hats? $\frac{1}{3}$
 What fraction of white rats are wearing chef hats? $\frac{2}{7}$
 What fraction of black rats are not wearing a chef hat? $\frac{1}{2}$

Puzzle 81
FIX IT FOR FELIX!



Puzzle 82
DEVIOUS DEVICE



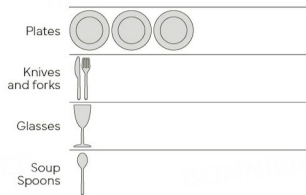
Puzzle 83
SNOW WHITE'S CUPCAKES

Doc (28 divides equally 4 among 7)

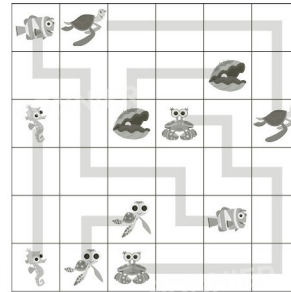
Puzzle 84
FLIK NICKS PICNICS

First work out how much the picnic weighs-
 Sandwiches: 1000 grams
 Cake: 800 grams
 Strawberries: 120 grams
 Altogether: 1920 grams.
 Then work out how much the ants can carry in one go:
 $30,000$ divided by $200 = 150$ grams of ants.
 $150 \times 6 = 900$ grams.
 The ants will have to leave the strawberries behind.

Puzzle 85
SETTING TABLES (AND GRAPHS!)



Puzzle 86
MORE FRIENDS TO FIND



Puzzle 87
MONSTERS THINK

Each row describes the row above it, so the answer is 3 1 1 3 1 2 1 1 1 3 1 2 2 1
 ('Three ones, one three, one two, one one, one three, one two, two ones.)

Puzzle 88
A WALK ON THE BEACH

A: Ariel (two feet)
 B: Sebastian (six feet)
 C: Max (four feet)

Puzzle 89
DOING TIME

It will be six days, at 4pm in the afternoon.

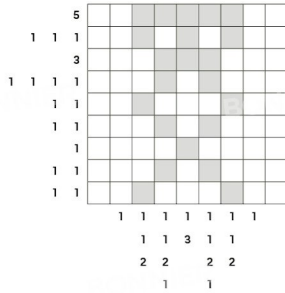
Puzzle 90
SPAGHETTI JUNCTION

What fraction have hair? $\frac{3}{8}$
 What fraction are wearing a hat? $\frac{5}{8}$
 What fraction are wearing a hat? $\frac{1}{2}$
 What fraction of ones wearing a hat are not wearing glasses? $\frac{1}{5}$
 What fraction of ones with hair are not wearing glasses? $\frac{1}{1}$

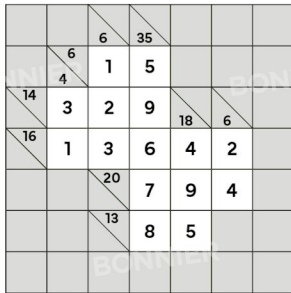
Puzzle 91
SOUL SURVIVOR

What fraction have hair? $\frac{3}{8}$
 What fraction are wearing a hat? $\frac{5}{8}$
 What fraction are wearing a hat? $\frac{1}{2}$
 What fraction of ones wearing a hat are not wearing glasses? $\frac{1}{5}$
 What fraction of ones with hair are not wearing glasses? $\frac{1}{1}$

Puzzle 92
SHIP AHOY!



Puzzle 93
KAKUROMORA!



Puzzle 94
BIBBIDI-BOBBIDI-WHAT?
 $X 5 + 2$

Puzzle 95
MADAM MIM'S MISCHIEF

11+	11+	5	1	2	6
4	3				
6	2	1	12+	5	13+
				3	4
1	120x	7+			5
	6	3	2	4	
5	4	2	36+	6	1
					3
1-	5+	17+			6
	2	5	4		1
3	1	6	4	3+	5
					2

Puzzle 95
TO INFINITY AND BEYOND AND BACK AGAIN

Left	Arrived	Journey Time
14:47	16:56	2 hours 9 minutes
01:50	13:54	12 hours 4 minutes
19:24	07:53	11 hours 31 minutes

Left	Return	Buzz's Journey Time
18:44	05:52	6 hours 34 minutes
09:34	15:16	3 hours 9 minutes
10:01	14:29	2 hours 24 minutes

Puzzle 97
CAN YOU WAIT TO BE KING?
4 years, in the Short Rainy Season.

Puzzle 98
THE NOT-SO-GREAT ESCAPE
Gaston, Cruella de Vil and Iago should work together to escape.

Puzzle 99
CURRENT EVENTS

1	2	3	20	21
6	5	4	19	22
7	8	9	18	23
12	11	10	17	24
13	14	15	16	25

Puzzle 100
PARTING GIFTS
Fauna: $/2 + 3$
Flora: $x 3 + 5$
Merryweather: $x 2 - 4$

Use this page to work out your answers

Use this page to work out your answers

Use this page to work out your answers

Use this page to work out your answers

Use this page to work out your answers

Use this page to work out your answers

Use this page to work out your answers

Use this page to work out your answers

Use this page to work out your answers

