

## Design a board game

If you were joining us for the induction week you would be designing a board game.

A picture of mine is below. Can you do better? We will give a prize for the best ones.

Rules:

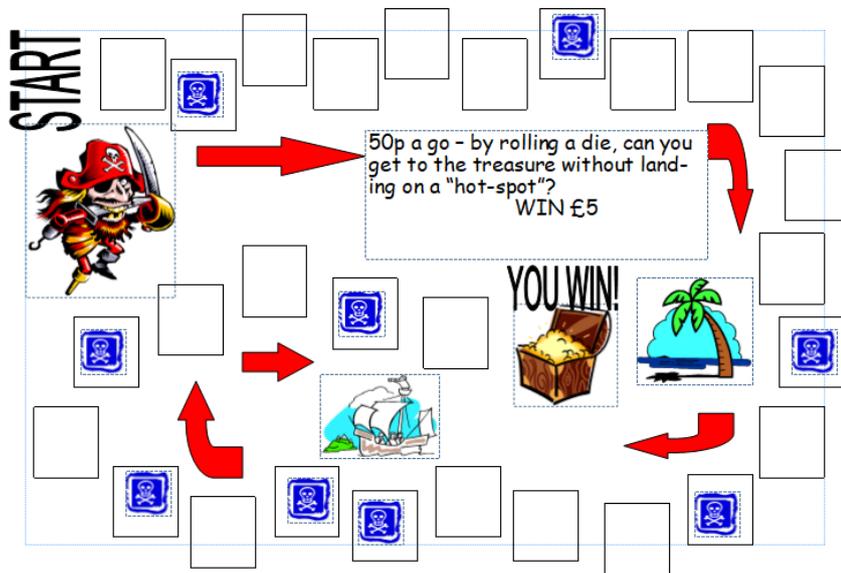
- 1) The games need hotspots where the player loses straight away.
- 2) You need to think of a price per go and an amount of prize money
- 3) Include any rules for your game.
- 4) The game must be on an A4 piece of paper/card
- 5) Send us a picture and bring it with you in September so we can display some of the best in the Maths department.

Hi, Year 8!

The Maths Department has put together some activities for you. Choose one or do the lot. It is up to you.

Please send your entry to:  
[www.office@ttl.org.uk](mailto:www.office@ttl.org.uk)

and in the subject line write: *Year8 Maths task*



## The Blockduko Challenge

Download the BlockuDoku ap for free. The highest score will win a prize.

We need to see photo evidence!



## Maths Puzzles

**How many of these ten questions can you get right?**

- 1) A man builds a house, it has four walls and the plan is a square. There is a window in each wall, all the windows face south. The man looks out of the window and sees a bear. What colour is the bear?
- 2) What is 5 divided by  $\frac{1}{2}$  plus 3?
- 3) How much dirt is there in a hole that measures two feet by three feet by four feet?
- 4) If a doctor gave you three pills and told you to take one every half hour, how long would they last?
- 5) Seven coins are arranged in five rows with three

coins in each row. Can you add two more coins to make



it ten rows with three coins in each row?



- 6) In a container there are 66 buttons, with twice as many whites as greens, one less blue than green and seven more reds than greens. How many are there of each colour?
- 7) A farmer has six sacks of food. The sacks weigh 7, 11, 19, 23, 37 and 49 kg. How should she distribute these sacks between two baskets on her donkey so that the load is evenly balanced as possible?  
She cannot open any of the sacks!



- 8) What is my Number?

It is a square number

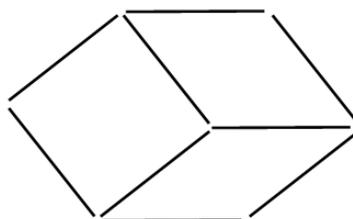
It is an odd number

It is  $< 50$  and  $> 20$

- 9) Can you find the sum of the missing column?

A	A	A	A	8
B	A	B	B	11
D	B	A	D	15
D	D	C	C	24
15	12	14	?	

- 10) Can you move two matchsticks to make four identical triangles?



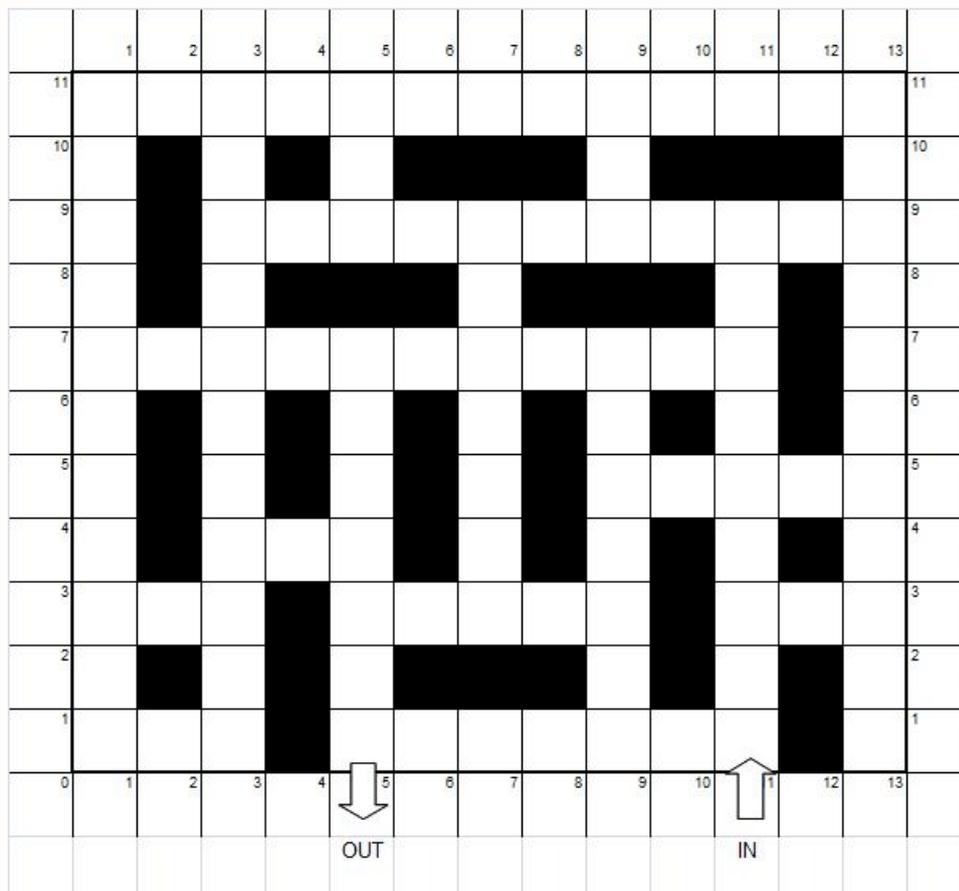
## Target Board

How many ways can you make the number 55 using the numbers in the grid? You can only use each number once.

3	12	4	55
5	8	1	
10	2	6	

## No left turn mazes

This maze only allows right turns. (You are not allowed to turn around fully or go backwards).



## Pig Pen code

AB	CD	EF
GH	IJ	KL
MN	OP	QR



So an A looks like this:

And a B looks like this:

Use the cipher above to decode these mathematical words.

The first letter of each answer will also spell out a message.

