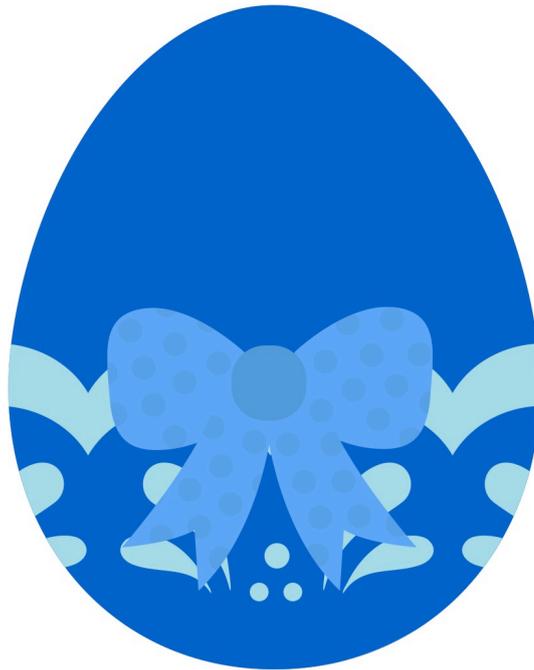


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Easter maths Challenges

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Eggs

Billy buys three Easter Eggs, white chocolate, milk chocolate and dark chocolate. Each egg costs a different amount.



The white chocolate egg and the milk chocolate egg cost a total of £7

The milk chocolate egg and the dark chocolate egg cost a total of £8

The white chocolate egg and the dark chocolate egg cost a total of £11

How much does each Easter egg cost?



Egg Label

Ellie designs a rectangular pattern for the label of a new Easter Egg.

It has three rabbits and three eggs, each in yellow, blue and purple.

The yellow egg is above a blue shape

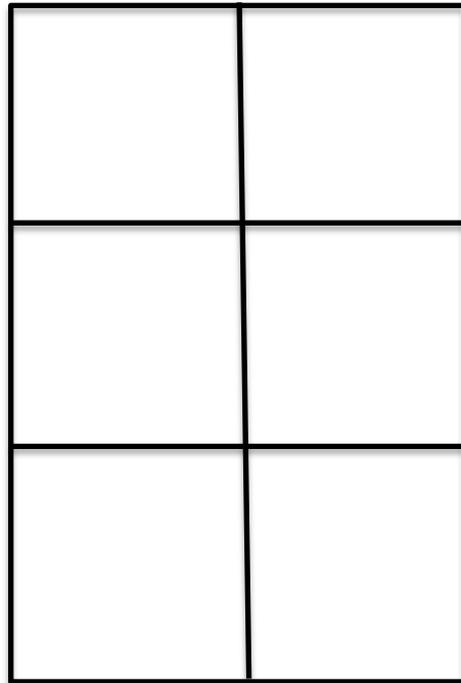
The yellow rabbit is below a blue shape

The purple shapes are in diagonally opposite corners

The blue egg is to the left of the purple egg.

Is there more than one way to satisfy all the statements?

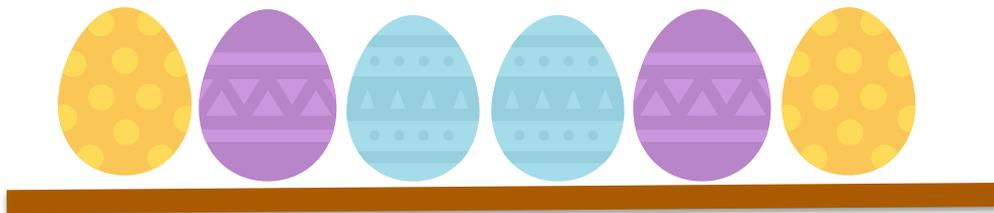
Can you write clues to your own design?



Eggs on a Shelf

Mo has 6 eggs; two yellow, two blue and two purple.

He arranges them on the shelf in a line so they make a symmetrical pattern.



How many different ways can you find to arrange the six eggs so they make a symmetrical pattern?

What if he only had 4 eggs, two blue and two yellow?

Can you solve the problem with 5 eggs?

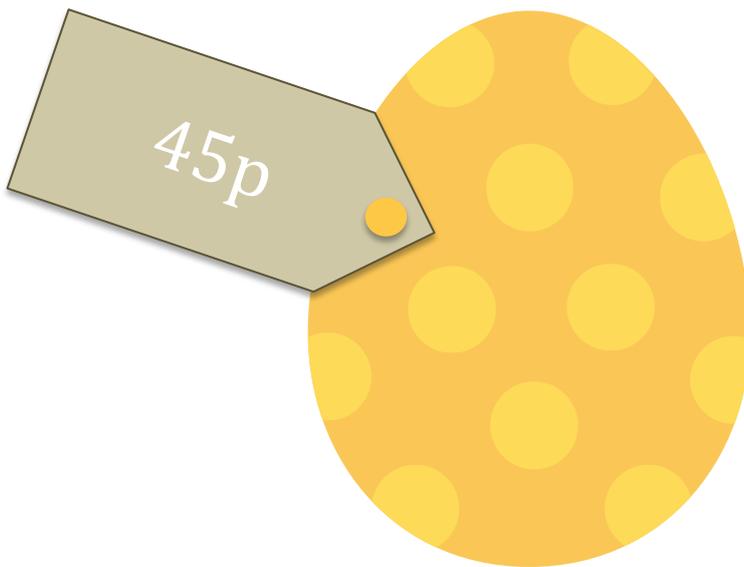
Lydia's Egg

Lydia bought a small chocolate Easter egg for 45p.

She used only silver coins to pay for it.

Find as many ways as you can that she could have paid for it.

How can you keep track of your thinking?



What if she had paid 35p?

Egg Basket

Easter eggs in a basket cost 40p, 50p, 60p or 70p.

Sam chooses 3 eggs.
How much might they cost him in total?



If the eggs cost 45p, 55p, 65p and 75p, how does that change the possible totals?