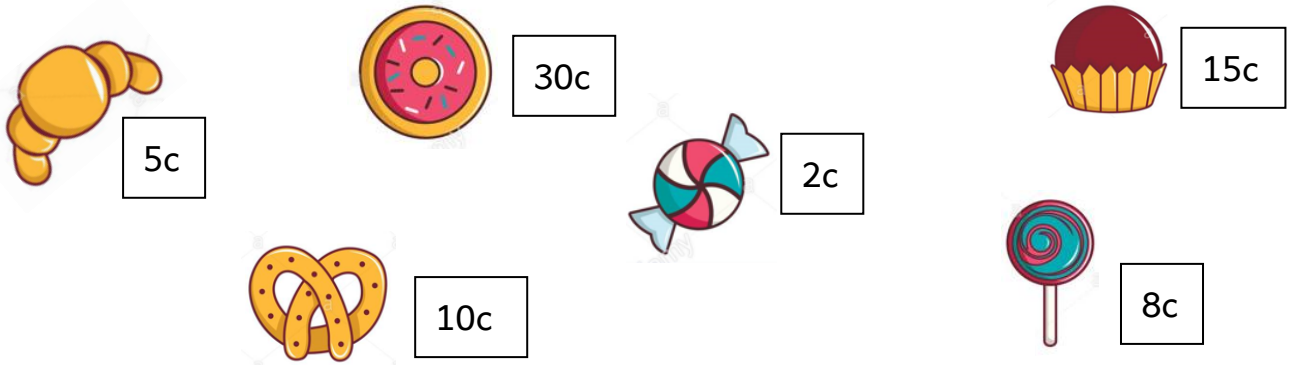
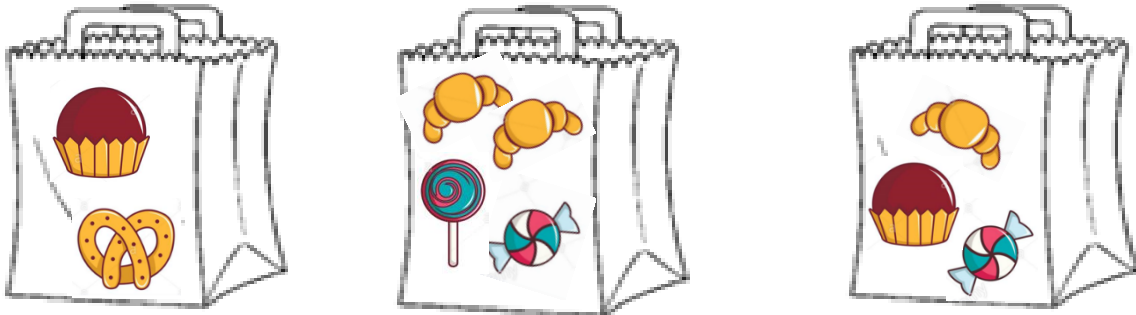


### Treat bags









Dan's bag costs 22c. Which one is his bag? Circle the correct bag.



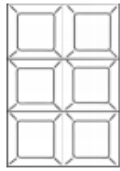
How many different treat bags can you make? The **total cost** of each bag is to be **exactly 30c**. You **cannot** put **more than 2** treats of the same type, in each bag.

Record the **quantities** of different treats in the table below:

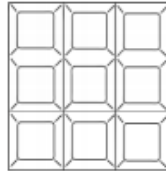
Treat bags						
Bag 1						
Bag 2						
Bag 3						

Max really likes chocolate. Dark chocolate squares are his favourite.

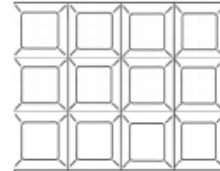
Max makes a growing pattern with chocolate squares.



6 squares



9 squares



12 squares

If the pattern continues, **how many squares** would Max use to make **patterns 4 and 5**? Fill in the table below:

Pattern	1	2	3	4	5
No. of squares	6	9	12		

Danika has a box of assorted chocolates. There are **24 chocolates in all**.

$\frac{1}{4}$  hazelnut     $\frac{1}{12}$  chocolate orange     $\frac{1}{6}$  white chocolate     $\frac{1}{2}$  caramel

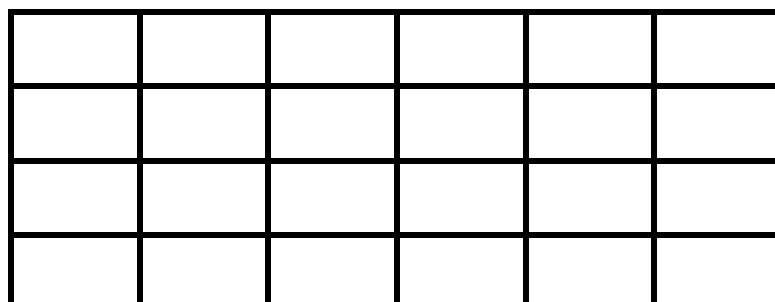
Colour the squares in the grid below to represent the number of each type of chocolate.

hazelnut – green,

chocolate orange – orange,

caramel – yellow,

white chocolate – white



## The chocolate gift box

A chocolate factory decides to design some gift boxes for a new kind of chocolate.

There shall be **36 chocolates in each box**.

1. Chocolates are placed in a **single layer** in the shape of a **square or rectangle**.

**How many** different sized boxes can you design?



2. Now try making boxes of **36 chocolates in 2 layers**.

3. **Is it possible** to have 36 chocolates arranged in a square or rectangular shape in **3 layers**? If **yes**, how? If **no**, why not?

Using objects such as bottle caps or drawing might help you solve this

