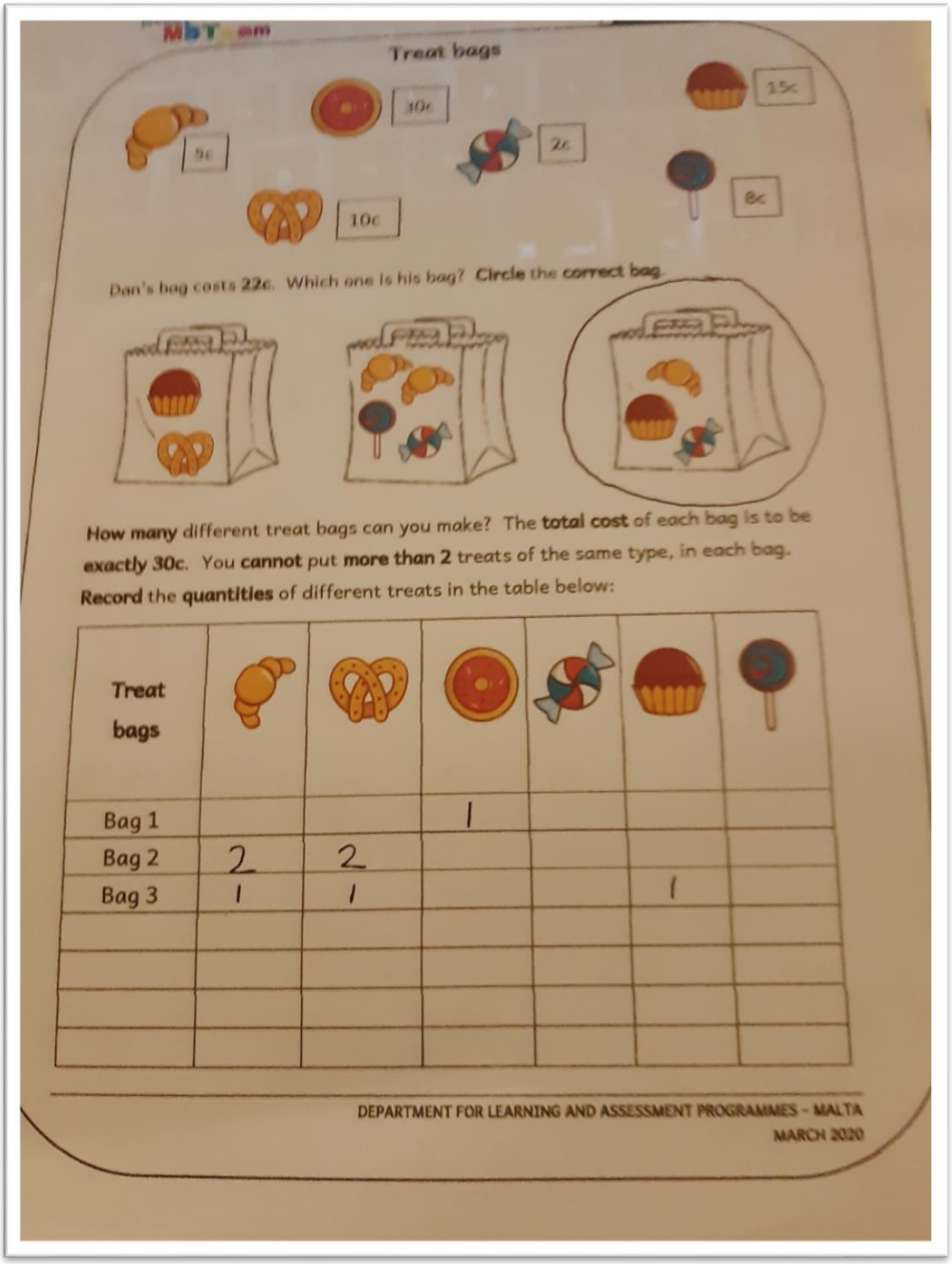
Emma Scerri (8 years) who is in Grade 4 and attends Our Lady Immaculate School.. told us that she loves maths :) She has also shared her work with us.



Treat bags

5c 30c 2c 15c 10c 8c

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			1			
Bag 2	2	2				
Bag 3	1	1			1	

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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	15	18

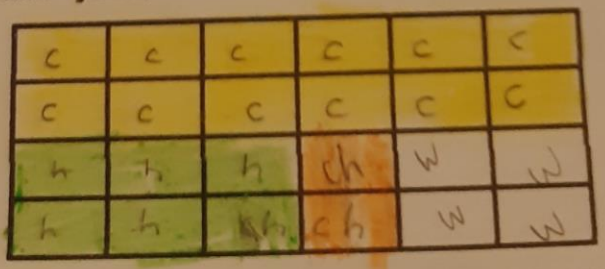
Danika has a box of assorted chocolates. There are **24 chocolates in all.**

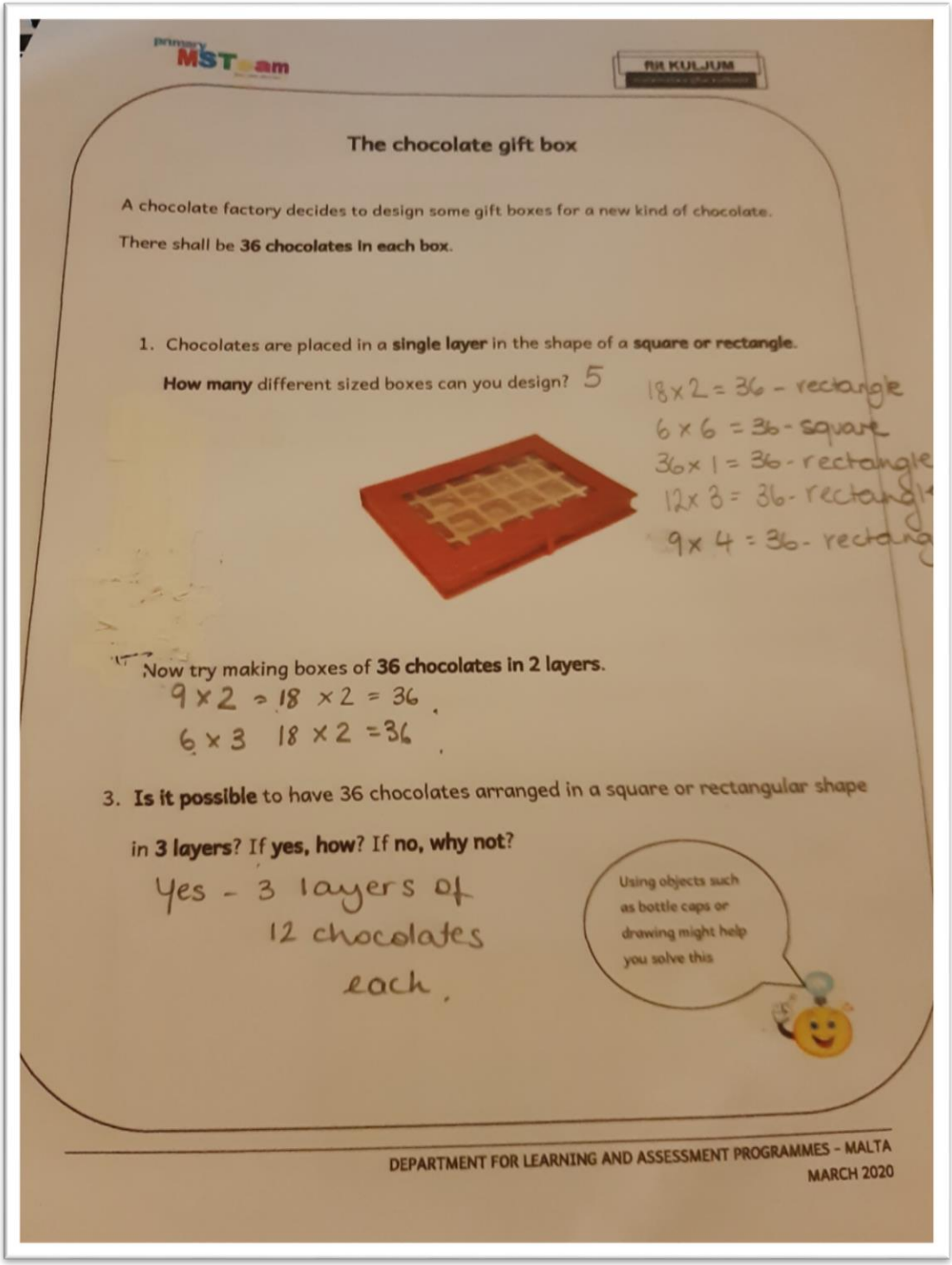
$\frac{1}{4}$ **hazelnut** $\frac{1}{12}$ **chocolate orange** $\frac{1}{6}$ **white chocolate** $\frac{1}{2}$ **caramel**

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

h - hazelnut - **green,** ch - chocolate orange - **orange,**

c - caramel - **yellow,** w - white chocolate - **white**





primary MSTeam

FTIT KULJUM

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? 5

18 x 2 = 36 - rectangle
6 x 6 = 36 - square
36 x 1 = 36 - rectangle
12 x 3 = 36 - rectangle
9 x 4 = 36 - rectangle

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

9 x 2 = 18 x 2 = 36
6 x 3 18 x 2 = 36

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**?

Yes - 3 layers of 12 chocolates each.

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

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THANK YOU FOR SHARING EMMA.

We are glad that you are enjoying these Maths challenges and that you look forward to the new ones being uploaded daily.