Easter Maths Challenge

Name: _____ Form: _____

ALL working must be shown to gain full marks. You will need a ruler, protractor and a pencil to complete the challenge. A calculator **will not** get you full marks. Put your answers in the box at the end of the question. The paper is out of 35.

1. The Easter Bunny can only carry 3 eggs at once. He has to choose 3 eggs from the following colours: Red, Green or Blue.

   How many possible ways can the Easter Bunny carry the eggs? (He can carry the same colour more than once)

3 marks

2. At an Easter Egg Hunt there are 25 chocolate eggs hidden around the park. The park consists of 4 areas shown in the table below: Bushes, Play Area, Swings and Pond.

   Complete the table:

Area Hidden:	Number of eggs:	Percentage of eggs:
Bushes	14	
Play Area		20%
Swings	4	
Pond Area		

4 marks

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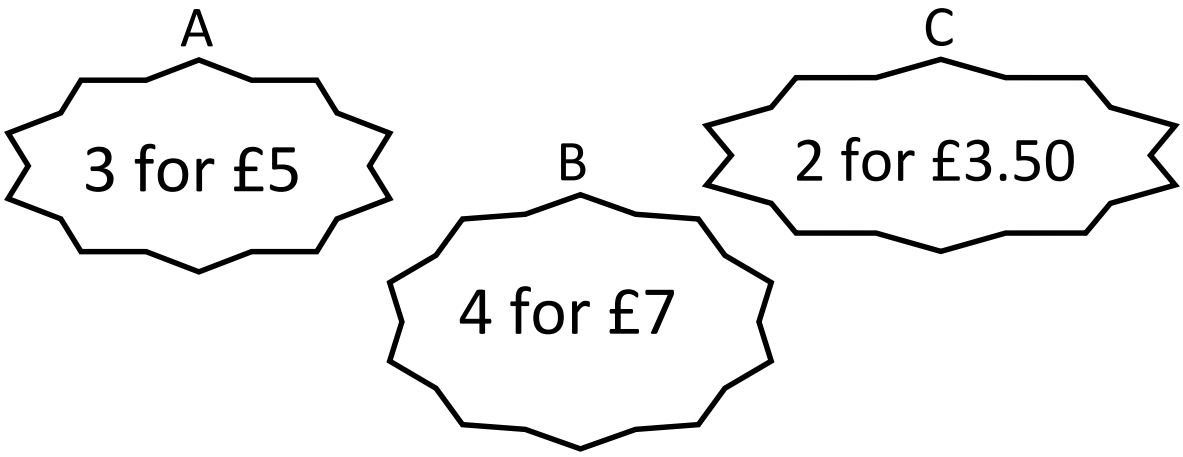
3. At 3 local supermarkets the following deals were on offer for Easter Eggs:



   If I were to buy 12 Easter Eggs, which supermarket would be cheapest?

3 marks

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4. Have a look at the field below:

(2X + 1)m

14m

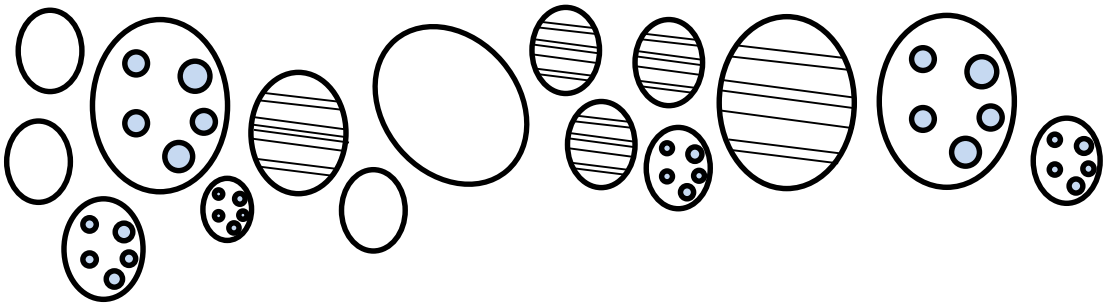
Area = 98m^2

Calculate the perimeter

X=

3 marks

5.



What fraction of the eggs are striped?

What percentage of the eggs have spots?

3 marks

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6. A large packet of mini eggs contains 27 eggs. There are 80 children in Y8. How many packets of mini eggs should I buy so that each child gets 2 eggs?

3 marks

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7. In a field there are 3 types of animal: Bunnies, Lambs and Chickens.

   The ratio of B:L = 12:1
   The ratio of L:C = 2:5

   If there are 15 chickens, how many Bunnies are there?

3 marks

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8. The following is a table to do with Easter Eggs:

Type	Weight	Cost per egg	Cost per 100g
Dairy Milk	175g	£2.00	
Flake	170g	£1.85	
Mars	180g	£1.70	
Maltesers	150g	£1.50	
Creme Egg	160g	£1.55	

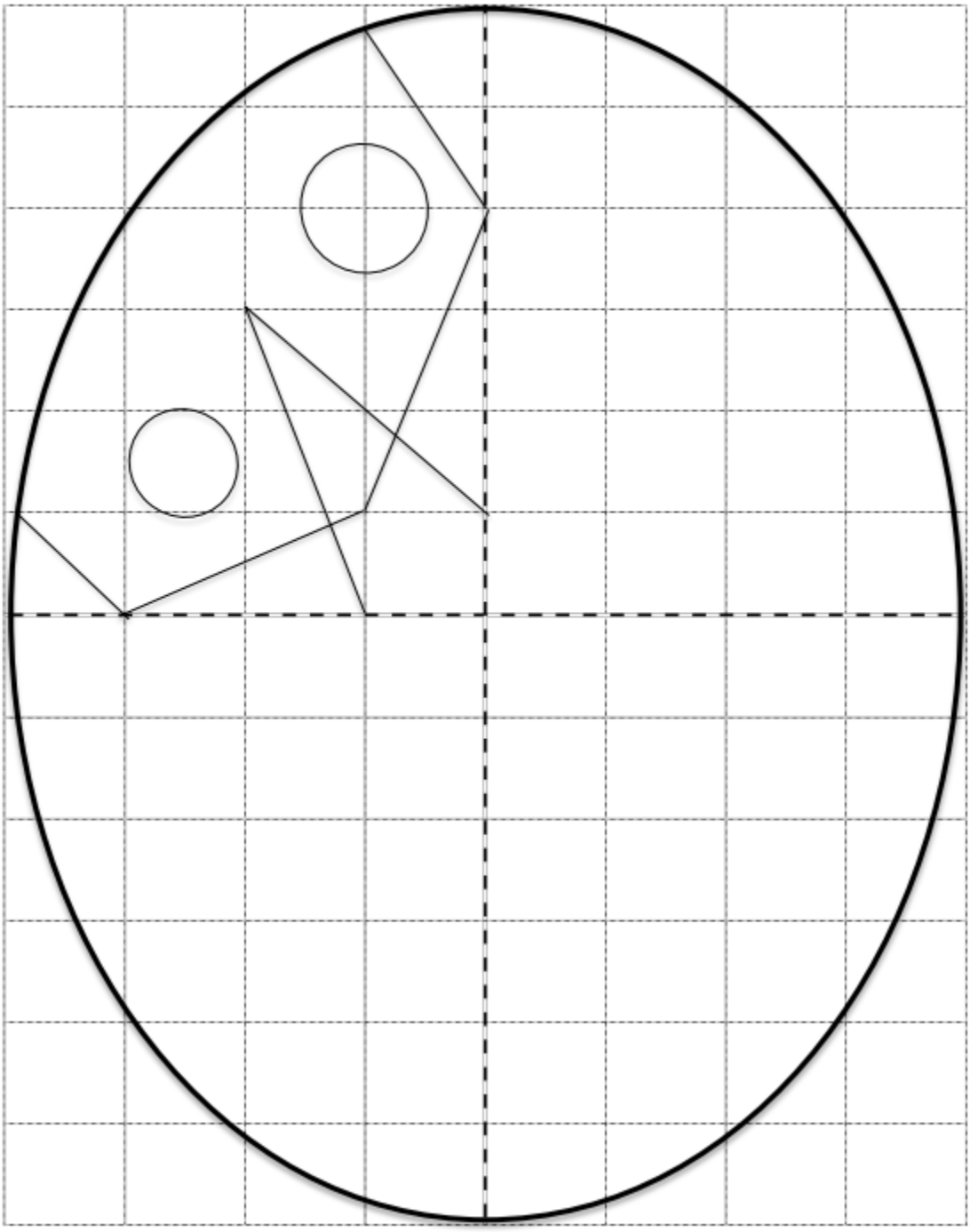
Complete the table and work out which egg is the cheapest per 100g:
(*Tip: Remember to **round up** with prices*)

6 marks

_____

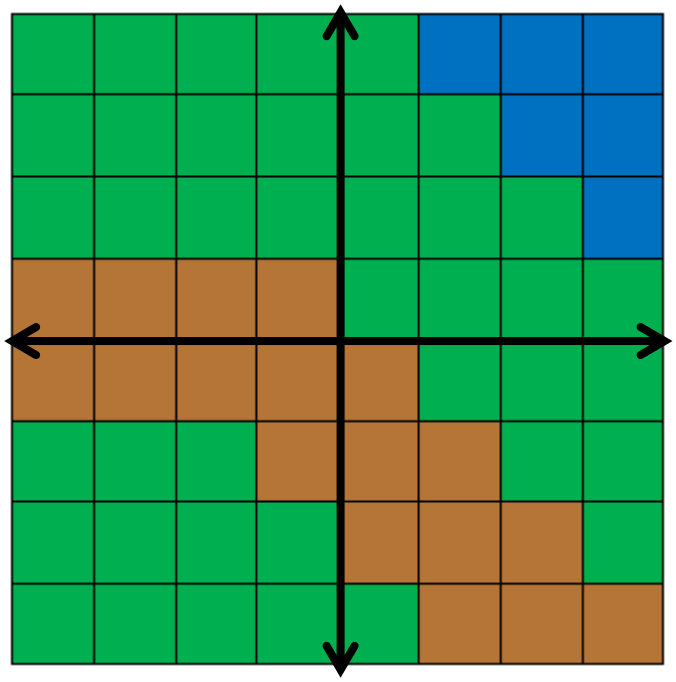
3 marks

9. Use the grid lines to complete the **symmetrical** pattern:

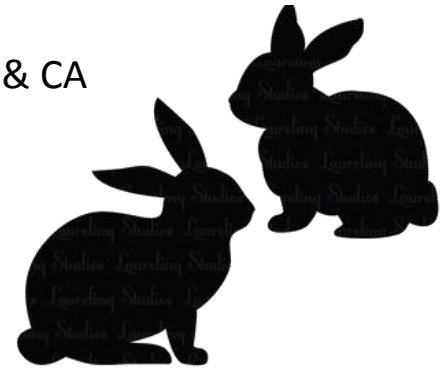


3 marks

10. The map below shows a field with a path and a pond. Someone has hidden 5 eggs (A,B,C,D,E) in the field with a clue to help you find them:



Egg A is hidden on the line y = 1
Egg C is the 4th vertex of a square
Egg B is hidden in the first quadrant
Egg C has an x coordinate 6 less than Egg A
Egg A has an x coordinate which is an even square number
Egg B has Egg A's coordinates swapped around
Egg D is on the line y = -2
Egg E is located on the midpoint of BD & CA
Egg D is also on the same line as Egg B



4 marks