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**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)





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1. 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 |  |  |



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

C

A

2 for £3.50

3 for £5

B

4 for £7

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



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1. Have a look at the field below:

(2X + 1)m

14m

Area = 98m2

X=

Calculate the perimeter



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1.

What fraction of the eggs are striped?

What percentage of the eggs have spots?



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1. 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?

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1. 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?





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1. 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*)



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





1. 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

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