

# Easter Murder Mystery Answers

Solve the equations to find **the weapon** that was used in the murder.

Solve the equations and add together the answers.

$$3x = 18$$

$$x = 6$$

$$x - 4 = 11$$

$$x = 15$$

$$5x - 4 = 21$$

$$x = 5$$

$$2 = 4 + 2x$$

$$x = -1$$

If your answer is:

**19**, then the weapon is an Easter basket.

**25**, then the weapon is a pancake.

**27**, then the weapon is a decorated egg.

**32**, then the weapon is a toy bunny.



Substitute the values to find **the name** of the murderer.

Substitute the values into each expression.

Then, using the alphabet so that A = 1, B = 2 and so on, find an anagram of the name of the person who committed the murder.

Finally, unscramble the anagram.

$$2a \text{ when } a = 7$$

$$14 \text{ N}$$

$$x - 5 \text{ when } x = 7$$

$$2 \text{ B}$$

$$3b - 1 \text{ when } b = 5$$

$$14 \text{ N}$$

$$2c^2 + 3 \text{ when } c = 3$$

$$21 \text{ U}$$

$$5(y + x) \text{ when } x = 7 \text{ and } y = -2$$

$$25 \text{ Y}$$

= BUNNY



Find the  $n$ th terms to find **when** the murder occurred (dd/mm/yy).

The **day** is given by the 7th term of a).

The **month** is given by the 15th term of c).

The **year** is given by the 15th term of b).

a) 1, 3, 5, 7...

Find the  $n$ th term and the 7th term

$$2n - 1$$

$$13$$

b) -1, 5, 11, 17...

Find the  $n$ th term and the 15th term

$$6n - 7$$

$$83$$

c) 20, 18, 16, 14...

Find the  $n$ th term and the 10th term

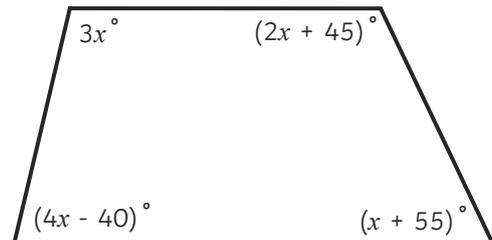
$$-2n + 22$$

$$2$$

Form and solve an equation to find **where** the murder occurred.

The diagram shows a quadrilateral with its angles marked. Form an equation and solve for  $x$ .

- If  $x$  is 45, then it occurred in London.
- If  $x$  is 35, then it occurred in Manchester.
- **If  $x$  is 30, then it occurred in York.**



$$10x + 60 = 360$$

$$10x = 300$$

$$x = 30$$

The murderer was a **Bunny** who used a **pancake** in **York** on **13/02/83**.