# Mystery at the Springfall Town Carnival Maths Game

The people of Springfall have been eagerly anticipating the day of the carnival. They have been building and decorating floats and getting costumes organised, ready for the parade.

The games, stalls and rides have all been set up in the field and the crowds are gathering. It will be another fabulous carnival in Springfall.

Oh no, wait! Disaster has struck! Someone has stolen the throne from the float that the carnival queen was meant to be sitting on! It was a real thing of beauty; gold painted, with a back six feet tall and (almost real) rubies encrusted in the arms. The carnival queen is inconsolable! Who would do such a terrible thing?

Your job is to use the clues and descriptions of the suspects to solve the mystery of the Throne Robber of Springfall Carnival! Good luck.





visit twinkl.com

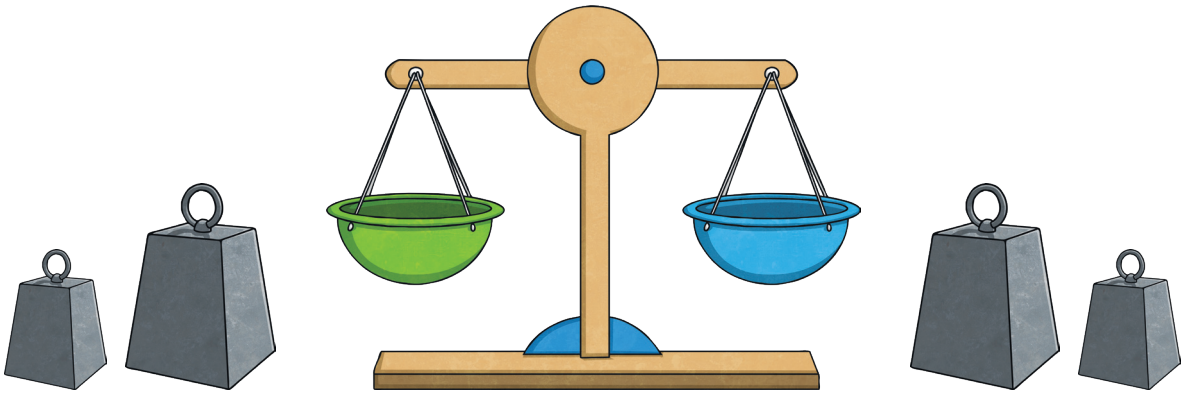
# Descriptions of Suspects

| Name | M/F | Age | Wore sunglasses | Favourite activity | Type of hat |
|---|---|---|---|---|---|
| Amy Anders | F | 20 | yes | helter-skelter | straw |
| Amir Abdul | M | 17 | yes | spinning teacups | none |
| Bartek Bazyli | M | 32 | no | bouncy castle | baseball cap |
| Belinda Browne | F | 18 | no | helter-skelter | none |
| Carol Carousel | F | 23 | yes | spinning teacups | straw |
| Cassius Cray | M | 72 | yes | mini golf | Panama |
| Dina Dancer | F | 28 | yes | helter-skelter | baseball cap |
| Dawid Dobray | M | 13 | yes | spinning teacups | Baseball cap |
| Elif Evergreen | F | 34 | no | mini golf | visor |
| Emily Emeline | F | 48 | yes | bouncy castle | straw |
| Fiona Frenzy | F | 42 | no | bouncy castle | none |
| Filip Felay | M | 31 | yes | bouncy castle | baseball cap |
| Gurleen Gad | M | 62 | yes | mini golf | Panama |
| Graeme Grindley | M | 27 | yes | bouncy castle | baseball cap |
| Hanna Heels | F | 59 | yes | mini golf | visor |
| Horace Hows | M | 59 | yes | bouncy castle | baseball cap |
| Isaac Ingles | M | 26 | yes | bouncy castle | visor |
| Ishmael Ince | M | 33 | no | bouncy castle | baseball cap |
| Jia June | F | 19 | yes | helter-skelter | baseball cap |
| Jack James | M | 44 | yes | bouncy castle | baseball cap |
| Klint Klivers | M | 42 | yes | mini golf | Panama |
| Karl Klam | M | 70 | yes | mini golf | Panama |
| Liza Laughs | F | 15 | no | spinning teacups | straw |
| Lily Lamb | F | 47 | yes | mini golf | visor |
| Macey Moore | F | 30 | no | helter-skelter | straw |
| Mohammad Magesh | M | 41 | yes | bouncy castle | visor |
| Nikita Noakes | F | 18 | yes | spinning teacups | straw |
| Narinder Nagar | M | 42 | yes | bouncy castle | visor |
| Oskar Okula | M | 20 | yes | spinning teacups | straw |
| Olivia Ochre | F | 29 | no | spinning teacups | baseball cap |

# Clue 1 Greater Than or Less Than?

Compare the measurements.

Use these signs < > = in the empty boxes.



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | 1m | ☐ | 100cm | 6. | 3ml | ☐ | 3l |
| 2. | 3m 67cm | ☐ | 294cm | 7. | 1kg 400g | ☐ | 1500g |
| 3. | 65 seconds | ☐ | 1 minute | 8. | 1 year | ☐ | 367 days |
| 4. | 65mm | ☐ | 6cm | 9. | 250kg | ☐ | 2500g |
| 5. | 500ml | ☐ | 1l | 10. | 3522ml | ☐ | 3l 530ml |

If there are more > the throne thief **did not** wear sunglasses.

If there are more < the throne thief **did** wear sunglasses.



visit twinkl.com

## Clue 2 A Mixed Bag

| A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 10 | 8 | 22 | 4 | 26 | 1 | 18 | 3 | 11 | 5 | 6 | 32 |

| N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 90 | 100 | 50 | 19 | 28 | 30 | 13 | 88 | 41 | 0 | 21 | 8 |

Solve these problems to work out the letters which spell out whether the thief was male or female.

| | Answer | Letter |
|---|---|---|
| The number of vertices on a triangular based pyramid. | | |
| Multiply the number of legs an octopus has, with the number of legs a zebra has. | | |
| $56 \div \square = 8$ | | |
| $900 \div 10$ | | |
| The number of months in a year, take away half the number of months in a year. | | |
| The number of 20p coins in £6. | | |
| Multiply two and twelve, then divide the answer by six. | | |
| The number of tens in 4222 | | |
| Work out these Roman numerals:<br>XXVI | | |

Answer to clue 2:

__ __ __ / __ __ __ __ __ __



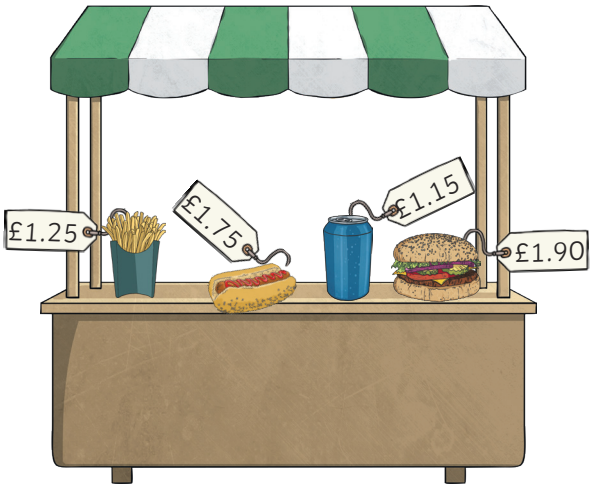
visit twinkl.com

# Clue 3 All Change!

Sarah buys a hotdog, some chips and a drink.

She pays with a £10 note.

How many of the purses show the correct change she will be given?














visit twinkl.com

## Clue 3 All Change!

| | **Favourite activity of the throne thief** |
|---|---|
| There is one purse with the correct change. | helter-skelter |
| There are two purses with the correct change. | bouncy castle |
| There are three purses with the correct change. | mini golf |
| There are four purses with the correct change. | spinning teacups |

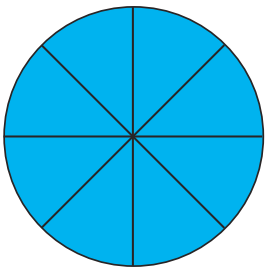
The throne thief's favourite activity is:

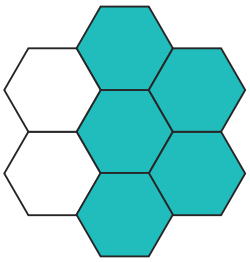
_____

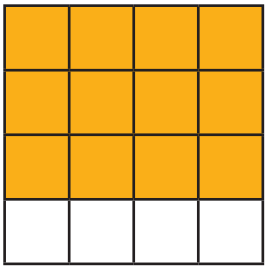


visit twinkl.com

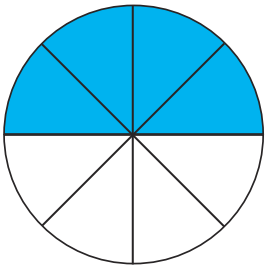
# Clue 4 Shady Fractions

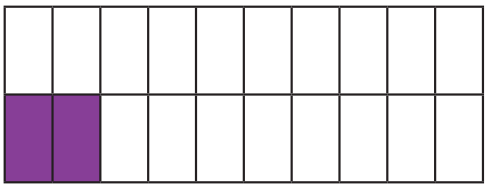












| | | | |
|---|---|---|---|
| straw $\frac{2}{7}$ | the $\frac{8}{8}$ | visor $\frac{4}{12}$ | wore $\frac{2}{20}$ |
| thief $\frac{12}{16}$ | panama $\frac{18}{20}$ | no $\frac{6}{12}$ | hat $\frac{1}{8}$ |
| baseball cap $\frac{6}{10}$ | a $\frac{5}{7}$ | throne $\frac{4}{8}$ | didn't $\frac{2}{18}$ |

Answer to clue 4



visit twinkl.com

# Clue 5 The Most Frequent

Complete these column calculations.

Look at the tens column of each of your answers. The digit which appears in the tens column the most frequently will tell you the tens digit of the thief's age.

| | | | |
|---|---|---|---|
| 1. 784 − 439 = | 2. 926 + 145 = | 3. 2473 − 1211 = | 4. 3092 − 1461 = |
| 5. 721 − 80 = | 6. 1340 + 731 = | 7. 903 + 153 = | 8. 832 − 691 = |

The number which appeared in the tens column most frequently is _____.

The decade of the age of the carnival queen throne thief is _____.

The throne thief is _____.



visit twinkl.com

# Clue 1 Greater Than or Less Than?

# Answers

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | 1m | = | 100cm | 6. | 3ml | < | 3l |
| 2. | 3m 67cm | > | 294cm | 7. | 1kg 400g | < | 1500g |
| 3. | 65 seconds | > | 1 minute | 8. | 1 year | < | 367 days |
| 4. | 65mm | > | 6cm | 9. | 250kg | > | 2500g |
| 5. | 500ml | < | 1l | 10. | 3522ml | < | 3l 530ml |

**There are more < signs so the throne thief did wear sunglasses.**



visit twinkl.com

# Clue 2 A Mixed Bag **Answers**

| | **Answer** | **Letter** |
|---|---|---|
| The number of vertices on a triangular based pyramid. | 4 | E |
| Multiply the number of legs an octopus has, with the number of legs a zebra has. | 32 | M |
| 56 ÷ ☐ = 8 | 7 | A |
| 900 ÷ 10 | 90 | O |
| The number of months in a year, take away half the number of months in a year. | 6 | L |
| The number of 20p coins in £6. | 30 | T |
| Multiply two and twelve, then divide the answer by six. | 4 | E |
| The number of tens in 4222 | 2 | N |
| Work out these Roman numerals:<br>XXVI | 26 | F |

**NOT FEMALE**



visit twinkl.com

## Clue 3 All Change! **Answers**

**There are two purses with the correct change of £5.85 in them.**

**The throne thief's favourite activity is the bouncy castle.**

## Clue 4 Shady Fractions **Answers**

| | | | |
|---|---|---|---|
| straw $\frac{2}{7}$ | **the** $\frac{\mathbf{8}}{\mathbf{8}}$ | visor $\frac{4}{12}$ | **wore** $\frac{\mathbf{2}}{\mathbf{20}}$ |
| **thief** $\frac{\mathbf{12}}{\mathbf{16}}$ | panama $\frac{18}{20}$ | no $\frac{6}{12}$ | hat $\frac{1}{8}$ |
| **baseball cap** $\frac{\mathbf{6}}{\mathbf{10}}$ | **a** $\frac{\mathbf{5}}{\mathbf{7}}$ | **throne** $\frac{\mathbf{4}}{\mathbf{8}}$ | didn't $\frac{2}{18}$ |

**THE THRONE THIEF WORE A BASEBALL CAP**

## Clue 5 The Most Frequent **Answers**

1. 784 − 439 = 345
2. 926 + 145 = 1071
3. 2473 − 1211 = 1262
4. 3092 − 1461 = 1631
5. 721 − 80 = 641
6. 1340 + 731 = 2071
7. 903 + 153 = 1056
8. 832 − 691 = 141

**The number which appears in the tens column most frequently is 4.**

**The decade of the age of the carnival queen throne thief is forty.**

**The throne thief is Jack James.**



visit twinkl.com