

Who Stole the May Queen's Crown?

Mystery Maths Game

Every year, Springfield Village have a May parade through the streets. The May Queen is crowned and rides on a beautifully decorated float. The whole procession ends with the children from Springfield Primary School taking part in a dance around the May pole, and everyone has a lovely day.

However, this year disaster has struck! The May Queen's crown has been stolen from the special box it is kept in! How will she be crowned when the crown is missing?



Your task is to look at all the evidence, compare it with the details of the suspects, and work out who the crown thief is! Good luck.

Name	Male or female	Long hair	Eats mints	Transport	Shoe size
Lily Lane	F	Y	N	bus	5
Billy Briers	M	N	Y	walk	8
Narinder Najib	F	Y	Y	bus	4
Graeme Green	M	N	Y	walk	10
Summer Shine	F	Y	Y	bus	3
Niamh Nelson	F	Y	Y	walk	5
Kacper Kowalski	M	N	N	car	9
Sally Sole	F	Y	Y	bus	7
Aqib Anders	M	Y	Y	bus	10
Lenny Lion	M	N	N	walk	10
Cathy Cromwell	F	Y	Y	bus	4
Armaan Ali	F	Y	Y	bus	7
Agata Ant	F	N	N	walk	5
Rachel Raven	F	Y	Y	bus	5
Matt Mathers	M	N	N	walk	9

Clue 1: Work It Out!

Work out the missing numbers. Colour the answers in the box below. Make a sentence from the words.

$20 - \boxed{} = 12$ $16 + \boxed{} = 20$

$13 + \boxed{} = 20$ $20 - \boxed{} = 9$

$\boxed{} + 3 = 20$ $20 - 19 = \boxed{}$

$14 + \boxed{} = 20$ $4 + \boxed{} = 20$

4 found	8 scene	0 near
17 at	2 female	1 was
10 not	19 lost	6 the
20 mint	7 long	18 Brown
11 crime	3 male	16 hair

Answer to clue 1: Work It Out!

Clue 2: True or False?

	True	False
A circle has no straight lines.		
A cube has 6 faces.		
A rectangle's sides are all the same length.		
A sphere has no vertices.		
A square-based pyramid has 6 faces.		
A triangle always has the same length sides.		
A hexagon has 6 sides.		

Clue 2: True or False?

If there are more true answers, the crown thief is female.

If there are more false answers, the crown thief is male.

Circle the answer: male female

Clue 3: Find the Fraction

Colour all the statements which are correct, then order the words into a sentence to work out the next clue.

$\frac{1}{2}$ of 6 = 3 wrapper	$\frac{1}{2}$ of 10 = 4 not.	$\frac{2}{4}$ of 8 = 3 near	$\frac{3}{4}$ of 16 = 8 to
$\frac{1}{2}$ of 12 = 3 beside	$\frac{1}{4}$ of 30 = 10 for	$\frac{1}{4}$ of 8 = 2 The	$\frac{1}{2}$ of 12 = 6 was
$\frac{1}{2}$ of 16 = 9 under.	$\frac{1}{3}$ of 9 = 3 mint	$\frac{1}{3}$ of 5 = 2 how	$\frac{1}{2}$ of 24 = 11 Don't
$\frac{1}{4}$ of 16 = 4 a	$\frac{1}{2}$ of 20 = 10 found.	$\frac{1}{3}$ of 18 = 6 of	$\frac{2}{4}$ of 12 = 6 sweet

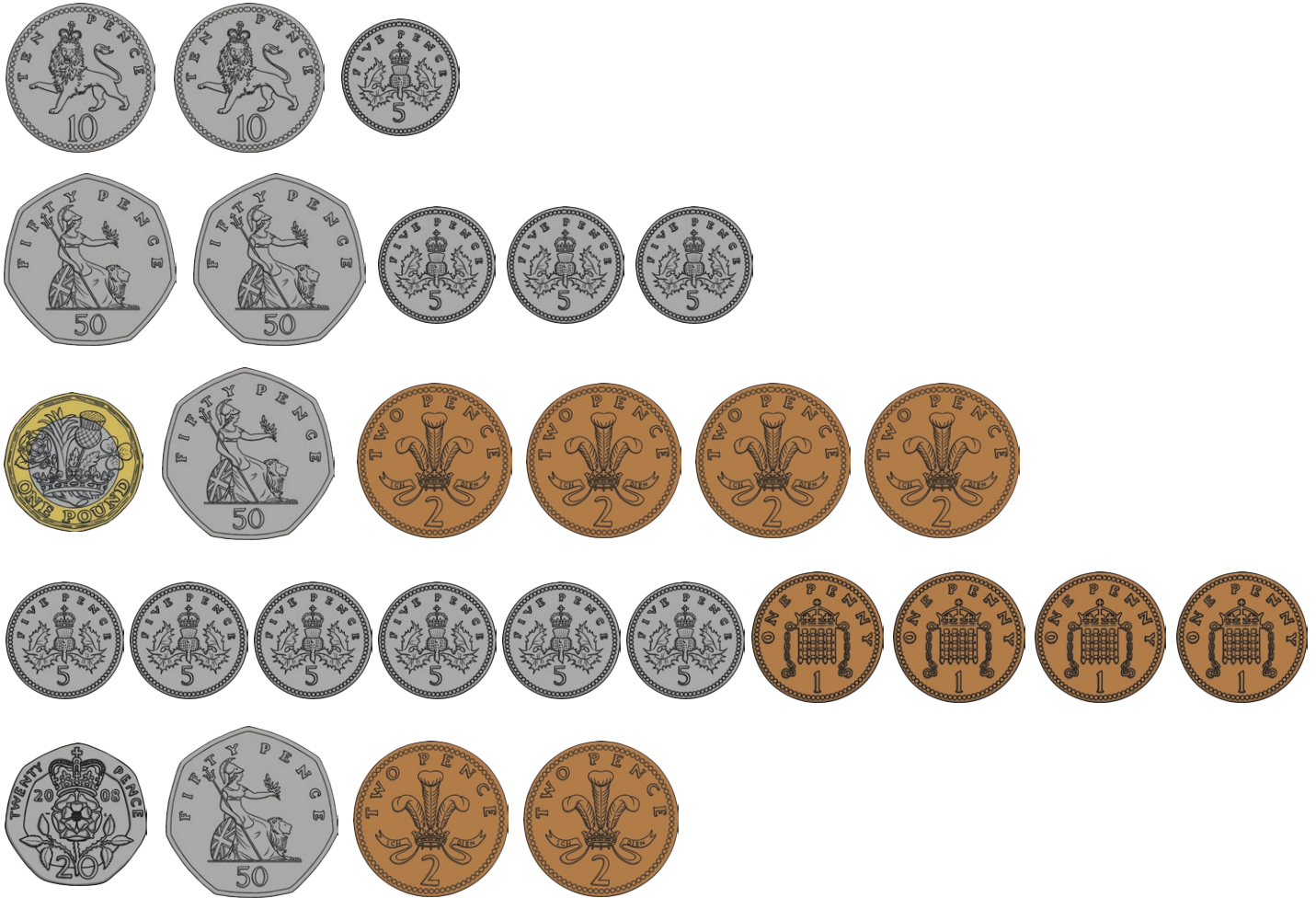
Answer to clue 3:

Clue 4: Show Me The Money

Add together the coins to work out the totals.

Then colour in the amounts in the box below.

Order the words to make a sentence and solve the clue.



22p thief	£1.15 ticket	£1.10 drove.
£1.58 was	74p dropped.	25p A
62p car	34p bus	£2.05 Walk

Answer to clue 4: Show me the money

Clue 5

Solve these word problems. The answer that is repeated three times, is the shoe size of the May Queen crown thief!

I have 20 pencils. I share them equally into two boxes.
How many pencils are in each box?

15 apples are shared equally into three bags. How many
apples are in each bag?

There are 12 toy cats at a shop. There are three shelves for
the display of toys. How many cats will be on each shelf?

Frankie has two £2 coins and one £1 coin. How much does
he have altogether?

There are four blue fish and three yellow fish in a tank.
How many fish are there altogether?

16 bulbs are planted in four pots. How many bulbs are
in each pot?

Lily had twenty chocolate mice. She and her brother ate
fifteen of the mice. How many were left?

Answer to clue 5: The thief's shoe size was _____.

The thief is: _____

Clue 1: Work It Out! Answers

Work out the missing numbers. Colour the answers in the box below. Make a sentence from the words.

$20 - \boxed{} = 12 \quad 16 + \boxed{} = 20$

$13 + \boxed{} = 20 \quad 20 - \boxed{} = 9$

$\boxed{} + 3 = 20 \quad 20 - 19 = \boxed{}$

$14 + \boxed{} = 20 \quad 4 + \boxed{} = 20$

4 found	8 scene	0 near
17 at	2 female	1 was
10 not	19 lost	6 the
20 mint	7 long	18 Brown
11 crime	3 male	16 hair

Answer to clue 1: Work It Out!

Long hair was found at the crime scene.

Clue 2: True or False? Answers

	True	False
A circle has no straight lines.	✓	
A cube has 6 faces.	✓	
A rectangle's sides are all the same length.		✓
A sphere has no vertices.	✓	
A square-based pyramid has 6 faces.		✓
A triangle always has the same length sides.		✓
A hexagon has 6 sides.	✓	

Clue 2: True or False? Answer

If there are more true answers, the crown thief is female.

If there are more false answers, the crown thief is male.

Circle the answer: male

female

Clue 3: Find the Fraction Answers

Colour all the statements which are correct, then order the words into a sentence to work out the next clue.

$\frac{1}{2}$ of 6 = 3 wrapper	$\frac{1}{2}$ of 10 = 4 not.	$\frac{2}{4}$ of 8 = 3 near	$\frac{3}{4}$ of 16 = 8 to
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$\frac{1}{2}$ of 16 = 9 under.	$\frac{1}{3}$ of 9 = 3 mint	$\frac{1}{3}$ of 5 = 2 how	$\frac{1}{2}$ of 24 = 11 Don't
$\frac{1}{4}$ of 16 = 4 a	$\frac{1}{2}$ of 20 = 10 found.	$\frac{1}{3}$ of 18 = 6 of	$\frac{2}{4}$ of 12 = 6 sweet

Answer to clue 3:

The wrapper of a mint sweet was found.

Clue 4: Show Me The Money Answers

Add together the coins to work out the totals.

Then colour in the amounts in the box below.

Order the words to make a sentence and solve the clue.

22p thief	£1.15 ticket	£1.10 drove.
£1.58 was	74p dropped.	25p A
62p car	34p bus	£2.05 Walk

Answer to clue 4: Show me the money

A bus ticket was dropped.

Clue 5 Answers

Solve these word problems. The answer that is repeated three times, is the shoe size of the May Queen crown thief!

I have 20 pencils. I share them equally into two boxes.
How many pencils are in each box?

10

15 apples are shared equally into three bags. How many
apples are in each bag?

5

There are 12 toy cats at a shop. There are three shelves for
the display of toys. How many cats will be on each shelf?

4

Frankie has two £2 coins and one £1 coin. How much does
he have altogether?

£5

There are four blue fish and three yellow fish in a tank.
How many fish are there altogether?

7

16 bulbs are planted in four pots. How many bulbs are
in each pot?

4

Lily had twenty chocolate mice. She and her brother ate
fifteen of the mice. How many were left?

5

Answer to clue 5: The thief's shoe size was **5**.

The thief is: **Rachel Raven**.