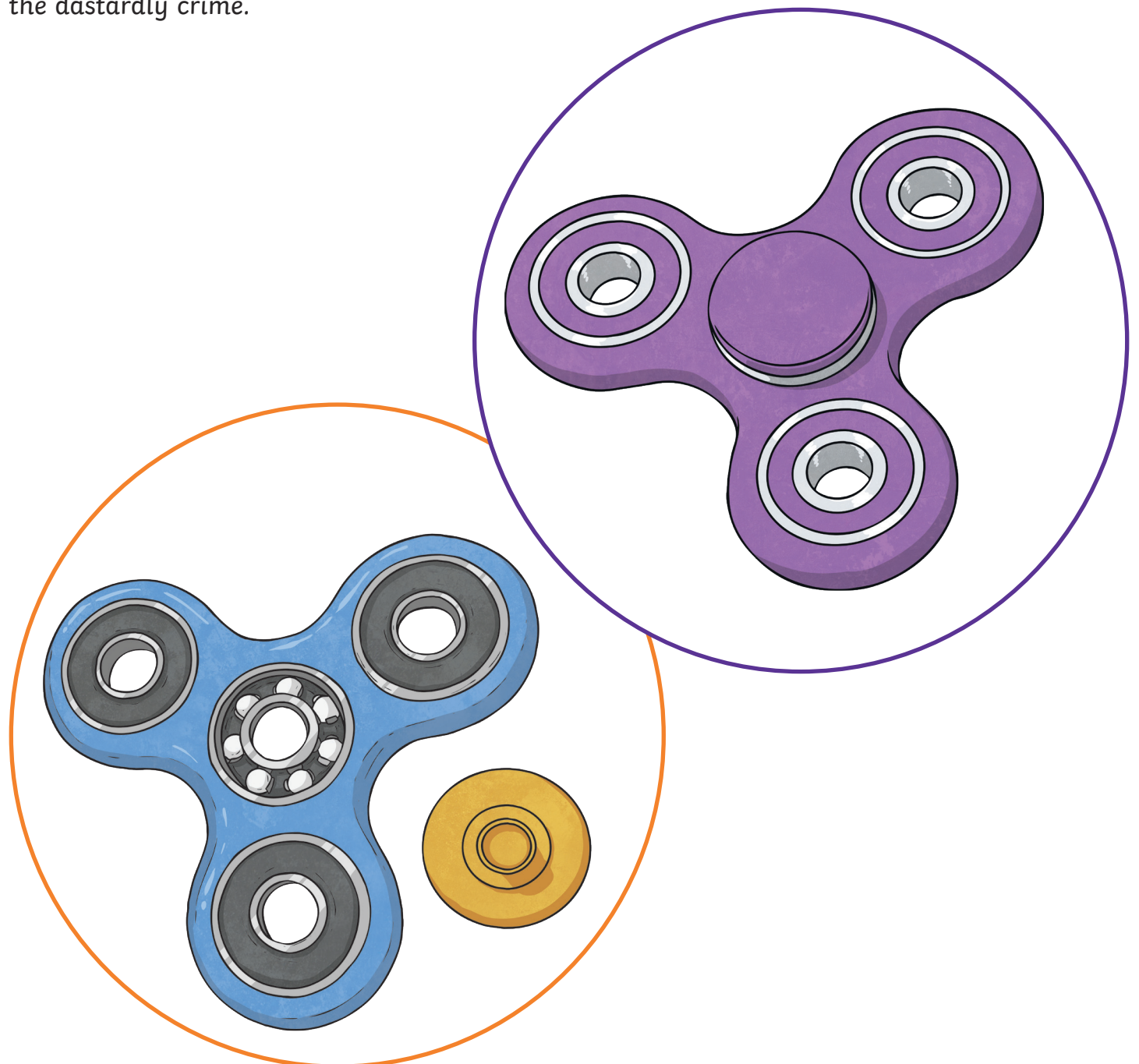


# The Fidget Spinner Mystery at Littleville Primary School

The children of Littleville Primary School are thoroughly obsessed with fidget spinners. They just can't get enough of those whirring, whizzing fidget spinners!

The spinners belonging to year 5 have been mysteriously dumped in a tub of paint, put in the school shed and left to dry so they no longer spin! But who put them there? Who sabotaged the spinners? A mixture of staff and pupils are in the frame.

The mystery begins here! It's up to you as Chief Inspector to piece together the clues and solve the dastardly crime.



Name	Male or Female	Position in School	Favourite Drink	Favourite Chocolate Bar	Shoe Size
Miss May	F	teacher	coffee	Saturns	5
Daniel West	M	pupil	cola	Paradise	5
Kuba Bosko	M	pupil	lemonade	Peanut Bar	8
Lydia Holmes	F	pupil	cola	Peanut Bar	5
Mr Kratz	M	teacher	coffee	Dairy Chocs	12
Mrs André	F	teacher	tea	Saturns	7
Ranjit Chopra	M	pupil	lemonade	Paradise	10
Sudha Perera	M	teacher	coffee	Saturns	11
George Tailby	M	pupil	cola	Saturns	7
Mollie Langley	F	pupil	cola	Dairy Chocs	5
Mandeep Khalsa	M	pupil	tea	Paradise	7
Mr Mann	M	teacher	coffee	Peanut Bar	12
Mrs Jessop	F	teacher	tea	Dairy Chocs	5
Miss Ping	F	teacher	coffee	Peanut Bar	8
Mr Carol	M	teacher	coffee	Peanut Bar	12
Layla Wickers	F	pupil	lemonade	Paradise	8
Harry Edge	M	pupil	cola	Saturns	10
Iman Kang	M	pupil	cola	Dairy Chocs	11
Mrs Lovely	F	teacher	tea	Paradise	5
Mr Grange	M	teacher	coffee	Peanut Bar	12
Amelie Marek	F	pupil	cola	Dairy Chocs	8
Alina Sharif	F	pupil	cola	Paradise	7
Mr Kalsi	M	teacher	tea	Paradise	11
Miss Nowak	F	teacher	tea	Peanut Bar	8
Tracey Mears	F	pupil	lemonade	Saturns	5
Mr Gierak	M	teacher	coffee	Saturns	12
Mr Simpson	M	teacher	coffee	Peanut Bar	11
Mrs Clubb	F	teacher	lemonade	Dairy Chocs	8
Tess James	F	pupil	cola	Peanut Bar	7

## Clue 1: The Price Is Right!

Find the answers to each of the three sets of fraction statements. Circle the answer in each set which will give you the most money. Then, find the answers in the table below. Finally, order the words to make a sentence to solve the first clue.

<b>Set 1</b>	$\frac{1}{4}$ of £2 =	$\frac{1}{5}$ of £3 =	$\frac{1}{10}$ of £5 =
<b>Set 2</b>	$\frac{5}{9}$ of £2.70 =	$\frac{4}{5}$ of £1.50 =	$\frac{3}{10}$ of £3 =
<b>Set 3</b>	$\frac{1}{2}$ of £5 =	$\frac{2}{3}$ of £6 =	$\frac{5}{6}$ of £6 =
<b>Set 4</b>	$\frac{3}{7}$ of £3.50 =	$\frac{5}{6}$ of £3.30 =	$\frac{1}{6}$ of £3.60 =
<b>Set 5</b>	$\frac{2}{5}$ of £4 =	$\frac{2}{3}$ of £4.50 =	$\frac{7}{8}$ of £4 =

£2.10 pupil	£1.60 male	30p cola	£4 Peanut Bar
£2.50 female	60p is	£5 culprit	£2 favourite
£5.50 Saturns	20p Paradise	50p lemonade	£3.50 a
75p Dairy Chocs	£1.50 the	£3 coffee	£2.75 teacher

Answer to Clue 1:

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## Clue 2: Correct or Not?

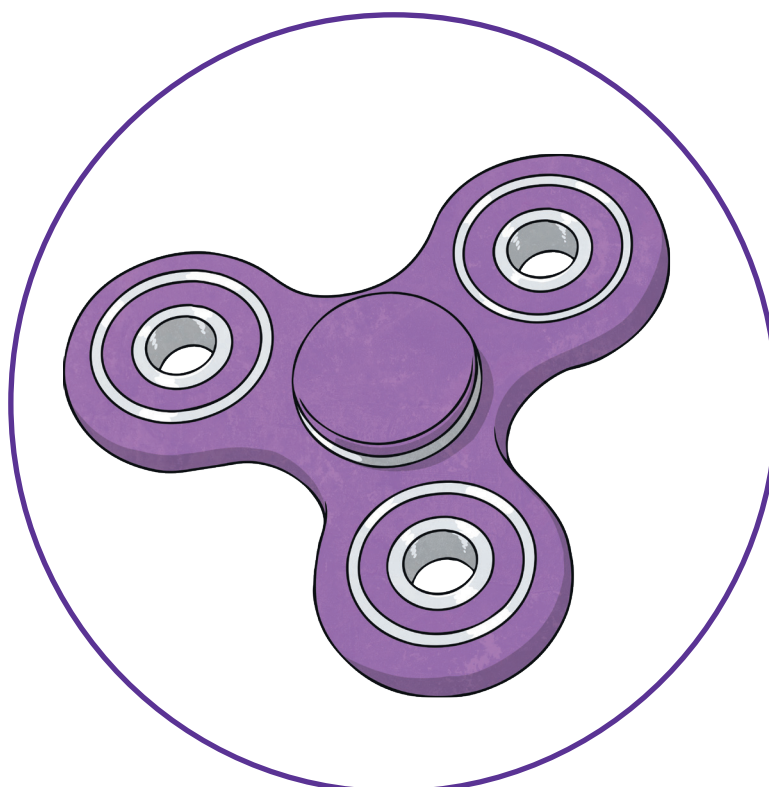
If there are more incorrect than correct, then the culprit is male.

$121 \div 11 = 12$	$12 \times 4 = 48$	$7 \times 8 = 63$	$868 \div 4 = 212$
$54 \div 9 = 8$	$14 \times 10 = 1400$	$34 \div 10 = 3.4$	$6 \times 4 = 28$
$51 \times 4 = 204$	$61 \times 8 = 478$	$48 \times 9 = 432$	$89 \times 8 = 702$

### Answer to Clue 2:

Circle the correct answer.

The culprit is...            male            female



## Clue 3: How Many?

Complete the table about the properties of 3D shapes. Use the numbers you have added to crack the code below.

3D Shape	Number of Surfaces (both curved and flat surfaces)	Number of Vertices	Number of Edges
Cuboid	6		12
Square-based pyramid		5	8
Sphere	1		0
Triangular prism	5	6	
Cylinder	3	0	
Cone	2	0	
Tetrahedron		4	6
Pentagonal prism	7		15
Hexagonal prism	8	12	
Octagonal prism	10		24

2	3	5	7	9
to	Peanut Bar	discovered	size	was
11	8	6	0	12
bar	cup	shoe	the	chocolate
4	14	1	13	17
next	Dairy Chocs	coffee	found	tea
15	18	21	10	19
cola	paint	Paradise	tub	packet
20	22	16	24	23
mug	bottle	of	there	lemonade

Answer to Clue 3:

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## Clue 4: Spell It Out!

a	b	c	d	e	f	g	h	i	j	k	l	m
1	2	3	4	5	6	7	8	9	10	11	12	13

n	o	p	q	r	s	t	u	v	w	x	y	z
14	15	16	17	18	19	20	21	22	23	24	25	26

Solve these calculations, then reorder the letters to spell each word in the clue.

<b>First word:</b>	$\frac{1}{2}$ of 36, $2000 \div 100$ , 6 lots of 2, $7 \times 3$ , $8 \times 2$ , $30 \div 10$ , $3 \times 3$
<b>Second word:</b>	double five and add 1, $72 \div 8$ , $120 \div 10$ , $4 \times 1.0$ , $500 \div 100$ .
<b>Third word:</b>	$100 \div 5$ , $\frac{1}{5}$ of 80, $\frac{1}{9}$ of 45, $\frac{2}{7}$ of 49, $\frac{1}{4}$ of 4, $\frac{1}{5}$ of 105.
<b>Fourth word:</b>	$\frac{1}{5}$ of 90, $\frac{1}{3}$ of 3, $\frac{1}{4}$ of 8, $6 \times 3$ then add 1

Answer to Clue 4:

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## Clue 5: Time Differences

Find the difference between these times. The answer that occurs the most frequently is the size of footprint found in the paint near the dunked fidget spinners.

$13:26 \text{ and } 13:37 = \square$

$21:54 \text{ and } 22:01 = \square$

$12:03 \text{ and } 13:00 = \square$

$09:05 \text{ and } 09:13 = \square$

$02:57 \text{ and } 03:08 = \square$

$01:00 \text{ and } 01:10 = \square$

$04:52 \text{ and } 05:03 = \square$

$23:50 \text{ and } 00:00 = \square$

$15:04 \text{ and } 16:00 = \square$

$19:56 \text{ and } 20:07 = \square$

$18:57 \text{ and } 19:08 = \square$

$12:56 \text{ and } 01:13 = \square$

Answer to Clue 5:

The footprint is size \_\_\_\_\_

The fidget spinner culprit is: \_\_\_\_\_

# The Fidget Spinner Mystery at Littleville Primary School Answers

## Clue 1: The Price Is Right!

£2.10 pupil	£1.60 male	30p cola	£4 Peanut Bar
£2.50 female	<b>60p</b> is	<b>£5</b> culprit	£2 favourite
£5.50 Saturns	20p Paradise	50p lemonade	<b>£3.50</b> a
75p Dairy Chocs	<b>£1.50</b> the	£3 coffee	<b>£2.75</b> teacher

The culprit is a teacher.

## Clue 2: Correct or Not?

$121 \div 11 = 11$	$12 \times 4 = 48$	$7 \times 8 = 56$	$868 \div 4 = 217$
$54 \div 9 = 6$	$14 \times 10 = 140$	$34 \div 10 = 3.4$	$6 \times 4 = 24$
$51 \times 4 = 204$	$61 \times 8 = 488$	$48 \times 9 = 432$	$89 \times 8 = 712$

The culprit is male.



### Clue 3: How Many?

3D Shape	Number of Surfaces (both curved and flat surfaces)	Number of Vertices	Number of Edges
Cuboid	6	<b>8</b>	12
Square-based pyramid	<b>5</b>	5	8
Sphere	1	<b>0</b>	0
Triangular prism	5	6	<b>9</b>
Cylinder	3	0	<b>2</b>
Cone	2	0	<b>1</b>
Tetrahedron	<b>4</b>	4	6
Pentagonal prism	7	<b>10</b>	15
Hexagonal prism	8	12	<b>18</b>
Octagonal prism	10	<b>16</b>	24

2 <b>to</b>	3 Peanut Bar	5 <b>discovered</b>	7 size	9 <b>was</b>
11 bar	8 <b>cup</b>	6 shoe	0 <b>the</b>	12 chocolate
4 <b>next</b>	14 Dairy Chocs	1 <b>coffee</b>	13 found	17 tea
15 cola	18 <b>paint</b>	21 Paradise	10 <b>tub</b>	19 packet
20 mug	22 bottle	16 <b>of</b>	24 there	23 lemonade

Answer to Clue 3:

Coffee cup was discovered next to the tub of paint.

## Clue 4: Spell It Out!

First word:	CULPRIT
Second word:	LIKED
Third word:	PEANUT
Fourth word:	BARS

## Clue 5: Time Differences

The footprint size is 10.

The fidget spinner unspinning culprit is Mr Simpson.