

# The Mystery of the Pinebridge Village Hanging Baskets Problem

## Instructions

Pinebridge Village prides itself on how beautifully kept the lawns and gardens are; especially the lovely hanging baskets which adorn the many lamp posts throughout the village. Each spring, the mayor of the local town visits Pinebridge and praises the residents for the beauty of the many flowers and blossom trees.

However, a crime has been committed!

The day before the mayor's visit, it has been discovered that all the hanging baskets along the High Street have been knocked down and the lovely flowers kicked along the pavements!

As Chief Inspector, it is your job to make sure your team find out who has vandalised the hanging baskets, and bring them to justice.

The descriptions of people in the area, were taken. Use their descriptions, solve the clues, and identify the scoundrel vandal!



Name	M/F	Age	Height	Wore a watch	shoe size
Harvey Smith	M	36	short	Y	8
Fiona Cresswell	F	27	short	Y	5
Gwen Evans	F	49	tall	N	7
Hannah Gordon	F	18	short	N	5
Michael Jones	M	31	tall	Y	10
Dawid Kucharewski	M	45	tall	N	12
Tyler Baines	M	16	tall	N	11
Marissa Rose	F	17	short	Y	5
Layton Howe	M	40	tall	Y	12
Cameron East	M	32	short	Y	8
Krystyna Bobak	F	30	short	Y	5
Masie Fenton	F	38	tall	N	7
Lisa Winters	F	35	tall	Y	9
Summer Tilley	F	28	short	N	5
Karen Carpenter	F	38	tall	Y	8
Ray Mears	M	46	tall	N	12
Grant Killen	M	40	short	Y	10
Crystal Ball	F	38	short	Y	6
Mel Blanc	F	26	tall	N	8
Aqib Mughal	M	28	tall	N	11
Cormac Kelly	M	69	tall	Y	12
Johnson Phillips	M	55	short	Y	10
Carrie Beag	F	47	short	Y	8
Kathy Eversham	F	40	short	N	4
Jasvinder Mahmood	F	51	short	Y	5
David Morris	M	57	tall	Y	10
Gill Crisp	F	60	short	N	5
Carter Monk	M	58	short	Y	9
Ross Abbot	M	48	tall	Y	11
Sally Forth	F	32	short	N	4



# Clue 1



## A Fraction of Amounts

Colour the answers to the following fraction calculations and then re-order the words to make a sentence to solve the first clue.

$\frac{4}{5}$  of £25

$\frac{1}{10}$  of 30cm

$\frac{4}{7}$  of 35p

$\frac{3}{4}$  of 32kg

$\frac{1}{4}$  of 120g

$\frac{3}{5}$  of £200

$\frac{4}{10}$  of £900

$\frac{7}{10}$  of 100g

$\frac{4}{10}$  of 300ml

$\frac{1}{10}$  of 150g

$\frac{3}{8}$  of 24 litres

$\frac{5}{8}$  of £64

$\frac{3}{4}$  of 120ml

$\frac{5}{8}$  of 160 metres



24kg a	80kg male	20p stick	16 litres was	£360 baskets
100 metres the	15g because	3cm could	90ml used	120ml they
30ml robber	£20 the	40g lamp posts	30g reach	100g down
£40 vandal	£60 damaged	£120 hit	70g not	9 litres to

Answer to clue 1 \_\_\_\_\_

\_\_\_\_\_



## Clue 2



# What's the Perimeter?

Work out the following calculations and find the correct measurement in the box. Spell out the next clue.

Work out the perimeter of these shapes, from the measurements given.

Square: One side 12cm

Rectangle: width 2cm; length 8cm

Rectangle: width 2cm; length 10cm

Rectangle: width 13cm; length 20cm

Regular hexagon: One side 3cm

Regular pentagon: One side 12cm

Equilateral triangle: One side 3cm

Square: One side 6cm

Rectangle: width 4cm; length 5cm

Equilateral triangle: One side 9cm

Regular hexagon: One side 4cm

Regular octagon: One side 10cm

Regular pentagon: One side 6cm

Equilateral triangle: One side 10cm

A	B	C	D	E	F	G	H	I	J	K	L	M
24cm	2cm	10cm	48cm	18cm	27cm	16cm	23cm	80cm	19cm	11cm	30cm	60cm
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
9cm	12cm	82cm	22cm	40cm	20cm	15cm	6cm	66cm	8cm	4cm	29cm	14cm

Answer to clue 2 \_\_\_\_\_

\_\_\_\_\_



# Clue 3



## Place the Value

Fill in the missing answer. Take the last answers and match them to the words in the table. Then work out the sentence to solve next clue.

	+10		+100		+10		+100	
241	→	<input type="text"/>	→	<input type="text"/>	→	<input type="text"/>	→	<input type="text"/>
		-10		-100		-10		-100
904	→	<input type="text"/>	→	<input type="text"/>	→	<input type="text"/>	→	<input type="text"/>
		+100		+10		+1000		+1000
627	→	<input type="text"/>	→	<input type="text"/>	→	<input type="text"/>	→	<input type="text"/>
		-1000		-100		-100		-1000
5449	→	<input type="text"/>	→	<input type="text"/>	→	<input type="text"/>	→	<input type="text"/>
		+1000		-100		+1000		-100
2020	→	<input type="text"/>	→	<input type="text"/>	→	<input type="text"/>	→	<input type="text"/>
		+100		-1000		+10		-100
7241	→	<input type="text"/>	→	<input type="text"/>	→	<input type="text"/>	→	<input type="text"/>
		+1000		-100		+10		-1000
8448	→	<input type="text"/>	→	<input type="text"/>	→	<input type="text"/>	→	<input type="text"/>

6251 found	894 shoe	4449 short	3820 the
1023 under	461 on	2448 to	7341 man
684 was	737 beside	2737 watch	5449 lost
3858 for	3249 a	9358 table	8358 floor

Answer to clue 3 \_\_\_\_\_



## Clue 4



# Right or Wrong?

Work out which of the following calculations are incorrect. The total number of incorrect answers will determine the size of footprint left behind by the vandal.

$70 \times 3 = 210$

$240 \div 6 = 30$

$252 - 78 = 174$

$378 + 58 = 446$

$20 \times 8 = 160$

$900 + 6005 = 6905$

$200 \times 4 = 800$

$329 + 704 = 1033$

$188 - 69 = 119$

$2013 + 604 = 2166$

$140 \div 2 = 70$

$500 - 15 = 484$

$155 + 316 = 471$

$2691 - 745 = 1946$

$300 \div 4 = 60$

Answer to clue 4: The footprint was size \_\_\_\_\_





## Clue 5



# Spell it Out!

Fill in the missing answers.

Then write each answer below.

Take the first letter in each answer, (apart from number 6) and use them to work out the decade of the age of the vandal.

1. Fourteen days is the same as how many weeks? \_\_\_\_\_
2. Seven days is the same as one \_\_\_\_\_ .
3. August is the \_\_\_\_\_ month of the year.
4. 8pm until 8am would be \_\_\_\_\_ time.
5. If there was no December or January, there would be \_\_\_\_\_ months in the year.
6. There are 60 seconds in one of these. Write the second letter of the word: \_\_\_\_\_
7. These months all have something in common. What is it? June, October, November: \_\_\_\_\_
8. There are 120 of these in 2 minutes.

Answer to clue 5: \_\_\_\_\_

The vandal of the Pinebridge Village hanging baskets is

\_\_\_\_\_



# Clue 1: A Fraction of Amounts

24kg a	80kg male	20p stick	16 litres was	£360 baskets
100 metres the	15g because	3cm could	90ml used	120ml they
30ml robber	£20 the	40g lamp posts	30g reach	100g down
£40 vandal	£60 damaged	£120 hit	70g not	9 litres to

**Clue 1: The vandal used a stick to hit the baskets because they could not reach (the vandal was short).**

## Clue 2: What's Missing?

Square: One side 12cm	<b>48cm</b>	Rectangle: width 2cm; length 8cm	<b>20cm</b>
Rectangle: width 2cm; length 10cm	<b>24cm</b>	Rectangle: width 13cm; length 20cm	<b>66cm</b>
Regular hexagon: One side 3cm	<b>18cm</b>	Regular pentagon: One side 12cm	<b>60cm</b>
Equilateral triangle: One side 3cm	<b>9cm</b>	Square: One side 6cm	<b>24cm</b>
Rectangle: width 4cm; length 5cm	<b>18cm</b>	Equilateral triangle: One side 9cm	<b>27cm</b>
Regular hexagon: One side 4cm	<b>24cm</b>	Regular octagon: One side 10cm	<b>80cm</b>
Regular pentagon: One side 6cm	<b>30cm</b>	Equilateral triangle: One side 10cm	<b>30cm</b>



A	B	C	D	E	F	G	H	I	J	K	L	M
24cm	2cm	10cm	48cm	18cm	27cm	16cm	23cm	80cm	19cm	11cm	30cm	60cm
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
9cm	12cm	82cm	22cm	40cm	20cm	15cm	6cm	66cm	8cm	4cm	29cm	14cm

Clue 2: The vandal is female.

## Clue 3: Place the Value

	+10		+100		+10		+100
241 →	<b>251</b>	→	<b>351</b>	→	<b>361</b>	→	<b>461</b>
	-10		-100		-10		-100
904 →	<b>894</b>	→	<b>794</b>	→	<b>784</b>	→	<b>684</b>
	+100		+10		+1000		+1000
627 →	<b>727</b>	→	<b>737</b>	→	<b>1737</b>	→	<b>2737</b>
	-1000		-100		-100		-1000
5449 →	<b>4449</b>	→	<b>4349</b>	→	<b>4249</b>	→	<b>3249</b>
	+1000		-100		+1000		-100
2020 →	<b>3020</b>	→	<b>2920</b>	→	<b>3920</b>	→	<b>3820</b>
	+100		-1000		+10		-100
7241 →	<b>7341</b>	→	<b>6341</b>	→	<b>6351</b>	→	<b>6251</b>
	+1000		-100		+10		-1000
8448 →	<b>9448</b>	→	<b>9348</b>	→	<b>9358</b>	→	<b>8358</b>

6251 found	894 shoe	4449 short	3820 the
1023 under	461 on	2448 to	7341 man
684 was	737 beside	2737 watch	5449 lost
3858 for	3249 a	9358 table	8358 floor

**Clue 3: A watch was found on the floor.**

## Clue 4: Right or Wrong?

$70 \times 3 = 210$

$240 \div 6 = \mathbf{30}$

$252 - 78 = 174$

$378 + 58 = \mathbf{446}$

$20 \times 8 = 160$

$900 + 6005 = 6905$

$200 \times 4 = 800$

$329 + 704 = 1033$

$188 - 69 = 119$

$2013 + 604 = \mathbf{2166}$

$140 \div 2 = 70$

$500 - 15 = \mathbf{484}$

$155 + 316 = 471$

$2691 - 745 = 1946$

$300 \div 4 = \mathbf{60}$

**Clue 4: The footprint was size 5.**

## Clue 5: Spell it Out!

1. Fourteen days is the same as how many weeks? **Two**.
2. Seven days is the same as one **week**.
3. August is the **eighth** month of the year.
4. 8pm until 8am would be **night** time.
5. If there was no December or January, there would be **ten** months in the year.

6. There are 60 seconds in one of these. Write the second letter of the word: **I (as in 'minutes')**
7. These months all have something in common. What is it? June, October, November: **E**
8. There are 120 of these in 2 minutes. **Seconds.**

**TWENTIES.**

**Clue 5: The vandal is in their twenties.**

**The vandal of the Pinebridge Village hanging baskets is Fiona Cresswell.**