

The Mystery of the 'Kid'-napping.

Farmer Palmer the Llama Charmer also keeps pigs and prize goats, which are famous for their quality dairy products.

He woke up last Friday to find that there had been a llama farmer drama; all of his new baby goats had been stolen.

It's a real 'kid'-napping!

It must have happened overnight as he had checked them on Thursday night and everything had been fine. He even remembered locking the gate. He has no CCTV on his fields so it's down to you, the detective and the Scene of Crime Officers (SOCOs) to find out who was the perpetrator.

Solve the following clues to eliminate all but one of the following suspects based on their gender, where they live, hair colour, shoe size and the vehicle they drive.

Good Luck ... Farmer Palmer, his pigs, goats and llamas are depending on you!

Name	M/F	Village	Hair Colour	Shoe Size	Vehicle Used
April Azalea	F	Stowford	brown	7	Quad Bike
Arthur Abloom	M	Westford	black	6	Motorbike
Brenda Blossom	F	Eastford	ginger	9	4×4
Brian Breezy	M	Starford	bald	7	Quad Bike
Colin Crocus	M	Stowford	grey	10	4×4
Catherine Catkin	F	Westford	black	4	Tractor
Dave Duckling	M	Eastford	bald	8	4×4
Denise Daffodil	F	Starford	ginger	9	None
Eddie Equinox	M	Stowford	brown	6	Motorbike
Emelia Eggshell	F	Starford	grey	7	Quad Bike
Frances Forsythia	F	Stowford	blonde	8	4×4
Frank Flower	M	Eastford	brown	11	Car
Gordon Green	M	Starford	brown	9	Quad Bike
Geraldine Gardener	F	Eastford	blonde	5	Car
Harry Hatch	M	Westford	ginger	7	Motorbike
Hannah Honey	F	Westford	black	6	Quad Bike
Irene Iris	F	Starford	brown	9	4×4
Ignatius Inclement	M	Stowford	blonde	7	Tractor
Janet Jumpling	F	Starford	brown	8	Motorbike
Jerry Joyful	M	Eastford	bald	8	none
Kitty Kidling	F	Stowford	grey	3	Quad Bike
Kevin Kingfisher	M	Starford	ginger	6	4×4
Lois Lilac	F	Westford	blonde	7	Tractor
Liam Lively	M	Stowford	brown	9	Quad Bike
May March	F	Starford	blonde	7	Car
Mark May	M	Eastford	black	11	Quad Bike
Naomi Narcissus	F	Starford	blonde	8	Tractor
Nesta Nestling	M	Westford	ginger	10	Motorbike
Orton Orchid	M	Starford	brown	10	4×4
Oona Outdoors	F	Eastford	grey	7	Quad Bike
Polly Pollinate	F	Stowford	black	8	Quad Bike
Paddy Pansy	M	Westford	brown	7	Motorbike

Clue 1

The SOCOs have found traces of blood near the gate to the field. It looks like the catch on the gate has cut the criminal.

To reveal what information the SOCOs have found out about the criminal, work out the answers to these calculations. The answers give the number of a letter in the alphabet using the code: A=1, B=2, C=3, etc...

1. $20(3.1 - 2.8) =$

4. $0.02 + 0.7 + 0.28 =$

2. $2^3 - (0.03 \times 100) =$

5. $8 + (20 \div 5) =$

3. $\frac{11^2 + 3^2}{10} =$

6. $\sqrt{(0.25 \times 100)} =$

Answer _____

Clue 2

The SOCOs have found tyre tracks around the entrance to the field that do not match any of Farmer Palmer's vehicles.

They need to match the dimensions of the tyre tracks with the dimensions of various vehicles.

Work out the calculations below and the answer that comes up three times will give the width in centimetres of the tyres of the vehicle that the culprit used.

1. 25% of 102 =	2. 2% of 950 =
3. 50% of 50.8 =	4. 10% of 255 =
5. 20% of 127 =	6. 5% of 508 =

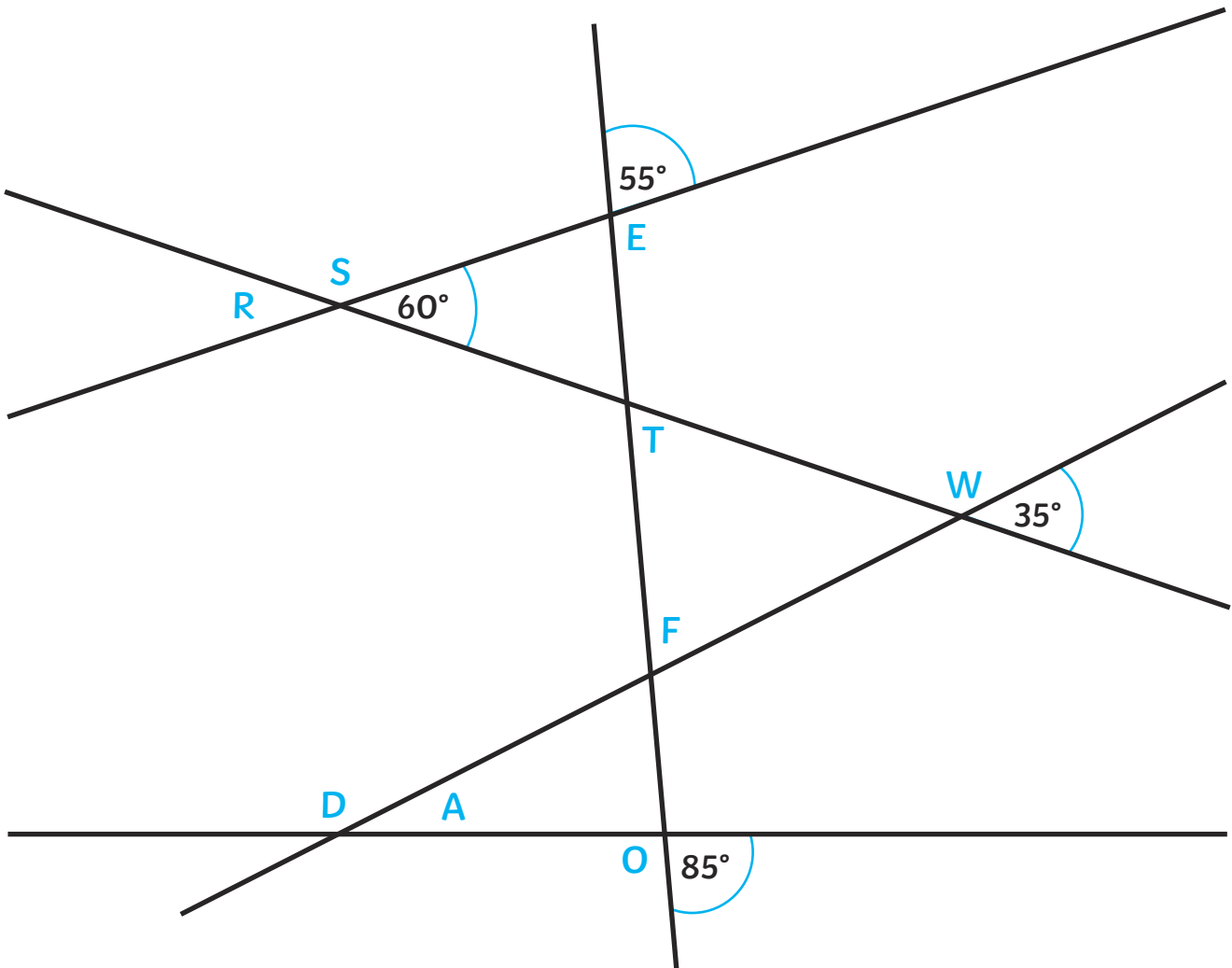
Vehicle	Front Tyre Diameter	Front Tyre Width
Motorbike	17 inches	19cm
Quad bike	25 inches	25.4cm
Car	16 inches	20.5cm
4×4	18 inches	25.5cm
Tractor	19 inches	127cm

Answer _____

Clue 3

After the SOCOs identified the vehicle, they looked at the tyre tracks and have realised that they come from one of the four nearby villages: Eastford, Westford, Starford and Stowford.

Work out the labelled angles in the tyre tracks to find the name of the village below...



Work out which letters are on the following angles and you will have the name of the village in which the culprit lives.

120°	65°	95°	145°	80°	95°	60°	165°

Clue 4

While the SOCOs are looking at the type of tracks, you have found some more evidence in the shape of some hair caught on the gate. Work out the calculations below to find the letters and solve the clue to reveal what you have discovered about the hair. (Remember when working with decimals you can think of money to help you.)

Decimal Calculation	Letters	Answers
0.3×6	= a	
0.25×5	= b	
$2.8 \div 4$	= c	
$0.8 \div 2$	= e	
0.5×5	= g	
0.7×8	= k	
$8.1 \div 9$	= l	
$1 \div 10$	= n	
0.33×3	= o	
2.7×4	= r	
$0.9 \div 3$	= t	
$3.6 \div 6$	= y	

Solve the Clue:

Find the corresponding letters to the numbers below.

0.1	0.99	0.3	2.5	10.8	0.4	0.6

Clue 5

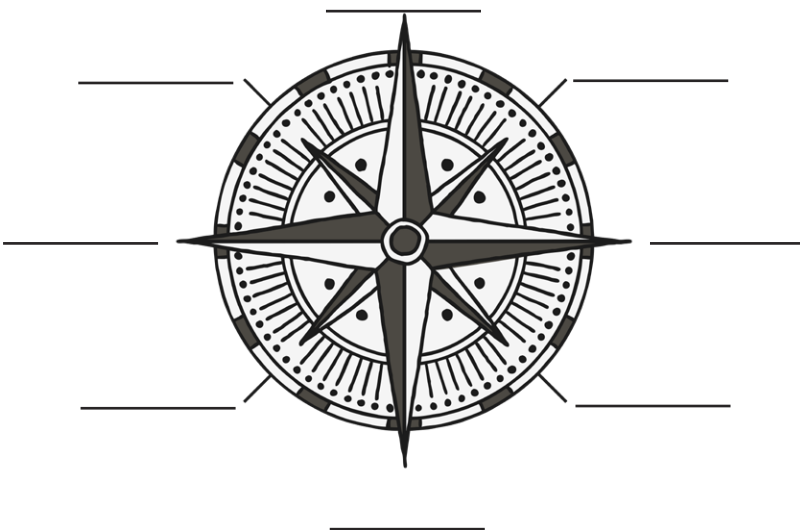
The SOCOs have found a footprint in the mud by the gate that does not match Farmer Palmer's boots or anyone who helps him, so it must belong to the culprit.

Using the grid below, solve the calculation **in the order it is given** to find the **shoe size**. From the Start square, use the compass directions to find the next step in the calculation.

For example, from the **start**, **NW1** would take you to **9**; from there, **SE3**, **W1** would take you to **-**; from there, **N4** takes you to **4**.

=	2	3	4	5
10	9	8	7	÷
×	12	Start	13	14
19	+	17	16	15
20	21	22	-	24

SE1	
N1, NE1	
SW1, NW2	
SE1,S3, NW2	
NE2	
SE2,W1, NE1	
S3	
NW3,S2	
N2	
SE3, W1	
N4,W1	
W2	



The Confession

When the goat stealer was finally caught, they had this to say...

x	2	5	7	3	10	8	6	4	1	9
6	I	A	L	V	B	K	D	C	J	'
9	V	M	!	T	\$	Y	"	D	H	B
3	J	S	U	H	A	C	V	I	:	T
1	Q	&	.	:	P	W	J	X	Z	H
7	F	G	@	U	/	O	L)	.	!
2	X	P	F	J	R	N	I	W	Q	V
8	N	?	O	C	#	E	K	£	W	Y
5	P	(	G	S	*	?	A	R	&	M
10	R	*	/	A	%	#	B	?	P	\$
4	W	R	)	I	?	£	C	N	X	D

12	8	30	15	35	56	12	16	35

27	56	20	64	27	21	20	16	27	9	64	45

12	8	30	15	56	16	42	72

54	48	12	36	36	12	16	35	54

Answers

Clue 1:

1. $20(3.1 - 2.8) = 6$

2. $2^3 - (0.03 \times 100) = 5$

3. $\frac{11^2 + 3^2}{10} = 13$

4. $0.02 + 0.7 + 0.28 = 1$

5. $8 + (20 \div 5) = 12$

6. $\sqrt{(0.25 \times 100)} = 5$

Answer **Female**

Clue 2:

1. 25.5	2. 19
3. 25.4	4. 25.5
5. 25.4	6. 25.4

Answer **25.4cm so the culprit had a quad bike.**

Clue 3:

Using the rules:

Straight line = 180° ;

Vertically opposite angles are equal;

Interior angles of a triangle = 180° ;

120°	65°	95°	145°	80°	95°	60°	165°
S	T	O	W	F	O	R	D

Clue 4:

Decimal Calculation
0.3×6
0.25×5
$2.8 \div 4$
$0.8 \div 2$
0.5×5
0.7×8
$8.1 \div 9$
$1 \div 10$
0.33×3
2.7×4
$0.9 \div 3$
$3.6 \div 6$

Letters

- = a
- = b
- = c
- = e
- = g
- = k
- = l
- = n
- = o
- = r
- = t
- = y

Answers

- = **1.8**
- = **1.25**
- = **0.7**
- = **0.4**
- = **2.5**
- = **5.6**
- = **0.9**
- = **0.1**
- = **0.99**
- = **10.8**
- = **0.3**
- = **0.6**

0.1	0.99	0.3	2.5	10.8	0.4	0.6
N	O	T	G	R	E	Y

Clue 5:

$16 \div 2 \times 3 \div 24 + 9 - 3 = 7$ (Shoe size 7)

The Culprit:

April Azalea

The Confession:

I was going to return them, I was only 'kidding'