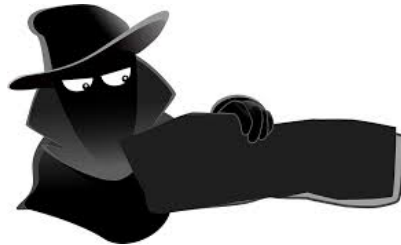


Maths and Mystery

Maths Mystery at school



Thirteen-years-old Kathleen is a straight-A-student at the East Side Middle school. She's a excellent at Maths and runs the school newspaper.

Yesterday she was at school in late afternoon because she had to write a newspaper article. Suddenly she saw a black shadow climbing out her principal window, carrying a big blue folder. It ran through the garden and got into the Maths department. She had no doubt: the thief was stealing sensitive data. This was terrible!

She looked all around to find some clues: only the hardworking Maths teachers were in school at that time. So one of them must be the thief!

Her determination to get to the bottom and catch the data thief has no bounds.

Your task, should you choose to accept it, is to help Kathleen to find the thief. Are you ready?

Look out data thief! Here we come!



Possible thief suspects:

Name	Surname	Sex	Hair	Right /left handed	Driver	Hat	Guilty?
Tom	Perkins	M	Brown	R	NO	YES	
Sara	Brown	F	Dark	L	YES	NO	
James	Bren	M	Red	L	YES	NO	
Charlott	Twiddle	F	Red	R	YES	YES	
Jack	Turnip	M	Fair	R	NO	NO	
Helen	Garner	F	Brown	L	YES	YES	
Jim	Begler	M	Dark	L	NO	YES	
Fiona	Walters	F	Fair	R	NO	NO	
Becky	Sands	F	Dark	R	NO	NO	
Ian	Walters	M	Dark	R	YES	YES	
Ruth	Adams	F	Red	R	YES	YES	
Eva	Kant	F	Dark	R	NO	YES	
Mark	Riddle	M	Fair	L	YES	NO	
Sam	Spret	M	Brown	R	YES	NO	
Harry	Pitcher	M	Dark	R	NO	YES	

Clue number 1: Get into shapes

Solve the clue and get informations about the hair of the thief

The answer to each question is a number. The number needs to be changed into a letter from the alphabet. A= 1, B=2 etc



Clue	Number	Corresponding letter
Numbers of sides of a square		
The sides of three triangles minus the sides of two squares		
Number of sides of six triangles		
Total numbers of vertices of an octagon and a triangle		
Number of sides of two rectangles		
The difference between the number of sides of a pentagon and of a square		
Total sides of three triangles		
Total sides of an octagon and a decagon		

Clue number 2:

Solve the clue and discover if the thief is left or right handed.

Solve the operations. The result of each operation is number. The number needs to be changed into a letter from the alphabet. A= 1, B=2 etc.



Clue	Number	Corresponding letter
7423 - 7405		
3529 - 3520		
392 : 56		
96 : 12		
4000 : 200		
120 : 15		
7432 : 7432		
392 : 28		
8000 : 2000		
15761 -15756		
512 : 32 : 4		

Clue number 3:

Solve this dating game and get informations about the thief wore.

The answer to each question is number. The number needs to be changed into a letter from the alphabet. A= 1, B=2 etc.



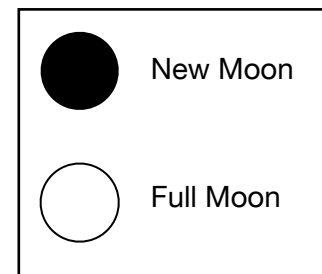
Calendar of year 2019 (United Kingdom)

January							February							March						
Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su
	1	2	3	4	5	6					1	2	3					1	2	3
7	8	9	10	11	12	13	4	5	6	7	8	9	10	4	5	6	7	8	9	10
14	15	16	17	18	19	20	11	12	13	14	15	16	17	11	12	13	14	15	16	17
21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24
28	29	30	31				25	26	27	28				25	26	27	28	29	30	31
6:●	14:○	21:○	27:○				4:●	12:○	19:○	26:○				6:●	14:○	21:○	28:○			

April							May							June							
Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	
	1	2	3	4	5	6	7			1	2	3	4	5					1	2	
8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9	
15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16	
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23	
29	30						27	28	29	30	31			24	25	26	27	28	29	30	
5:●	12:○	19:○	26:○				4:●	12:○	18:○	26:○				3:●	10:○	17:○	25:○				

July							August							September							
Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	
	1	2	3	4	5	6	7				1	2	3	4							1
8	9	10	11	12	13	14	5	6	7	8	9	10	11	2	3	4	5	6	7	8	
15	16	17	18	19	20	21	12	13	14	15	16	17	18	9	10	11	12	13	14	15	
22	23	24	25	26	27	28	19	20	21	22	23	24	25	16	17	18	19	20	21	22	
29	30	31					26	27	28	29	30	31		23	24	25	26	27	28	29	
2:●	9:○	16:○	25:○				1:●	7:○	15:○	23:○	30:○			6:○	14:○	22:○	28:○				

October							November							December						
Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su
	1	2	3	4	5	6					1	2	3							1
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29
5:○	13:○	21:○	28:○				4:○	12:○	19:○	26:○				4:○	12:○	19:○	26:○			



Clue	Number	Corresponding letter
The third Friday in January		
The new moon in April		
First Monday in November		
Second Wednesday in May		
New Year Day		
The day before full moon in March		



Clue number 4:

Solve in the sequence and discover if the thief is a male or a female

The answer to each question is a number. The number needs to be changed into a letter from the alphabet. A= 1, B=2 etc.



Sequence	X, the missing number	Corresponding letter
2 - 5 - X - 11 - 14		
20 - 15 - 10 - X		
45 - 36 - 27 - 18 - X		
13 - 15 - 17 - X - 21 - 23		
X - 26 - 39 - 52		
0 - X - 2 - 3 - 4 - 5		
3 - 6 - 9 - X - 15		
20 - 15 - 10 - X		

Clue number 5:

*Find which digits are shown by * and discover if the thief is a driver*

The answer to each question is a number. The number needs to be changed into a letter from the alphabet. A= 1, B=2 etc.

Clue	X, the missing number	Corresponding letter
$368 + 234 = \# \# *$		
$68 + 59 = * * \#$		
$439 + 82 = \# * *$		
$278 + 327 = \# \# *$		
$69 + 63 = \# * \#$		
$549 - 328 = \# \# *$		
$327 - 109 = \# * *$		

WHO IS THE THIEF?

Solutions

Clue 1

Clue	Number	Corresponding letter
Numbers of sides of a square	4	D
The sides of three triangles minus the sides of two squares	1	A
Number of sides of six triangles	18	R
Total numbers of vertices of an octagon and a triangle	11	K
Number of sides of two rectangles	8	H
The difference between the number of sides of a pentagon and of a square	1	A
Total sides of three triangles	9	I
Total sides of an octagon and a decagon	18	R

DARK HAIR

Clue 2

Clue	Number	Corresponding letter
7423 - 7405	18	R
3529 - 3520	9	I
392 : 56	7	G
96 : 12	8	H
4000 : 200	20	T
120 : 15	8	H
7432 : 7432	1	A
392 : 28	14	N
8000 : 2000	4	D
15761 -15756	5	E
512 : 32 : 4	4	D

RIGHT HANDED

Clue 3

Clue	Number	Corresponding letter
The third Friday in January	18	R
The new moon in April	5	E
First Monday in November	4	D
Second Wednesday in May	8	H
New Year Day	1	A
The day before full moon in March	20	T

RED HAT

Clue 4

Sequence	X, the missing number	Corresponding letter
2 - 5 - X - 11 - 14	8	H
20 - 15 - 10 - X	5	E
45 - 36 - 27 - 18 - X	9	I
13 - 15 - 17 - X - 21 - 23	19	S
X - 26 - 39 - 52	13	M
0 - X - 2 - 3 - 4 - 5	1	A
3 - 6 - 9 - X - 15	12	L
20 - 15 - 10 - X	5	E

HE IS MALE

Clue 5

Clue	X, the missing number	Corresponding letter
$368 + 234 = \# \# *$	60 2	B
$68 + 59 = * * \#$	127	L
$439 + 82 = \# * *$	5 21	U
$278 + 327 = \# \# *$	60 5	E
$69 + 63 = \# * \#$	1 32	C
$549 - 328 = \# \# *$	2 21	A
$327 - 109 = \# * *$	2 18	R

BLUE CAR

THE THIEF IS IAN WALTERS