

Clue 1—Turn it round

A

Some of these letters have been rotated or flipped. Can you read the message? The numbers above each letter show which row the letter is in.

2	1	3	3	1	3	1	1	1
1	3	1	2	1	1	1	1	1
1	3	3	2	2	2	3	1	3
1								

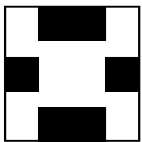
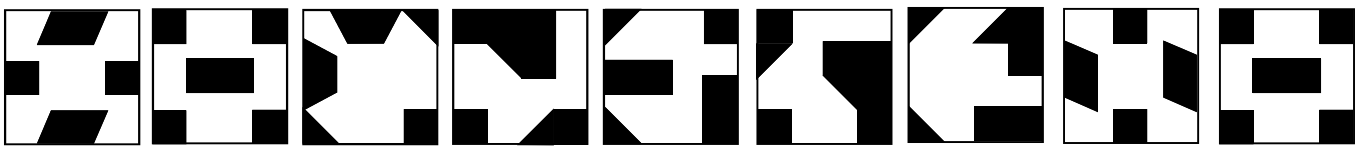
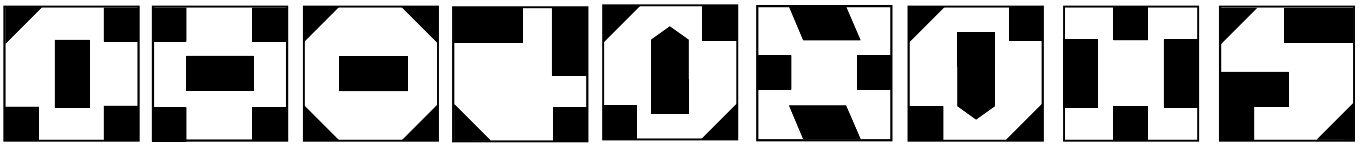
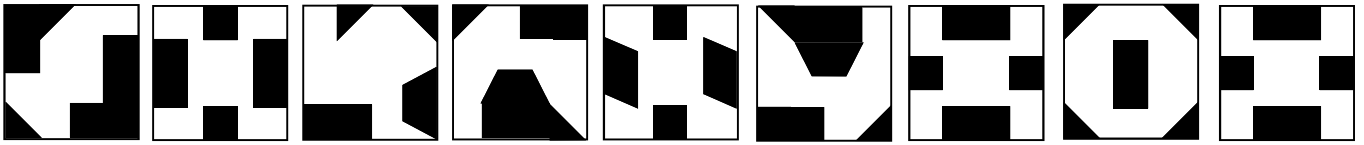


space	a	b	c	d	e	f	g	h	
									1
i	j	k	l	m	n	o	p	q	
									2
r	s	t	u	v	w	x	y	z	
									3

Clue 1—Turn it round

AA

Some of these letters have been rotated or flipped. Can you read the message?



space

a

b

c

d

e

f

g

h



1

i

j

k

l

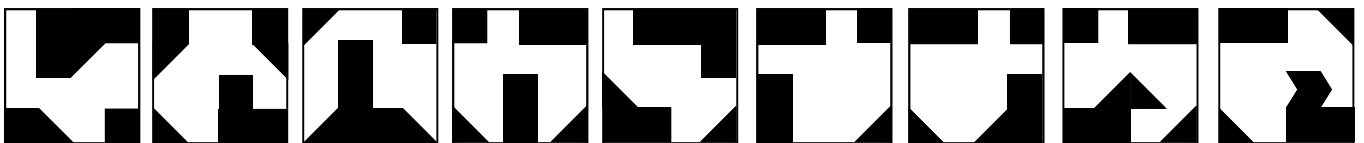
m

n

o

p

q



2

r

s

t

u

v

w

x

y

z



3

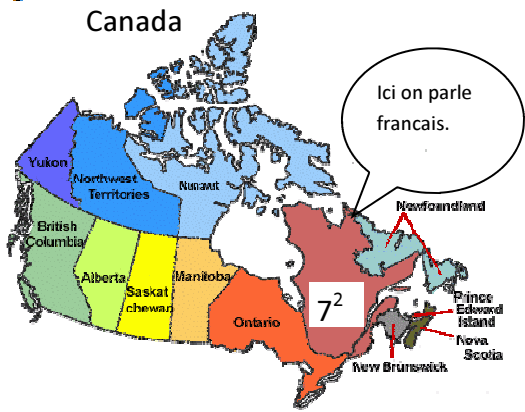
Clue 2—Police alphabet

Match each picture puzzle to a name on the police alphabet. Work out the calculation and write the answer under the correct word. Then use the completed code table to decipher the message.

1^2



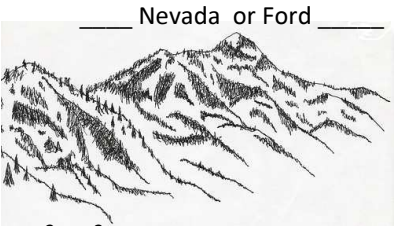
$\sqrt{9}$



$\sqrt{64}$

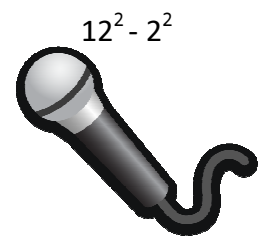


$8^2 - 7^2$



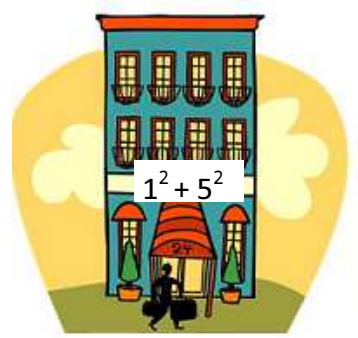
Nevada or Ford

$8^2 - 3^2$



$12^2 - 2^2$

Hello



$1^2 + 5^2$

α

Hello

$\sqrt{100}$

$11^2 - 6^2$

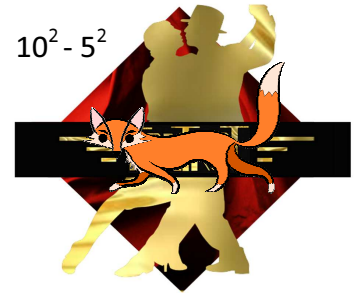
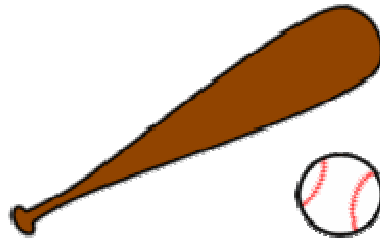
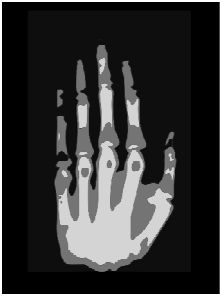
Hello

$\sqrt{144}$

New York _____

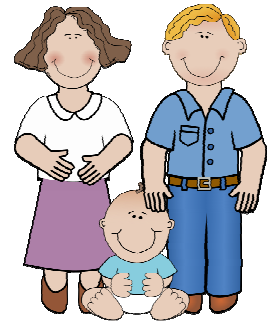
$10^2 - 5^2$

10^3



$8^2 + 2^2$

9^2



October

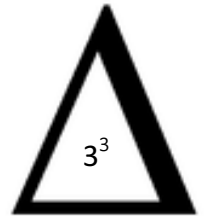
6^2

December

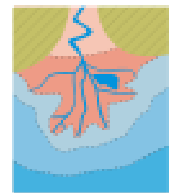


$1^2 + 2^2$

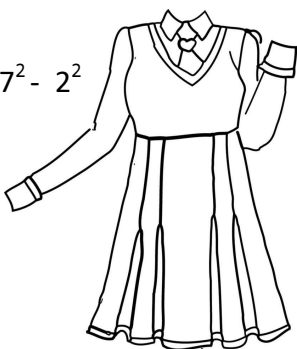
$11^2 - 4^2$



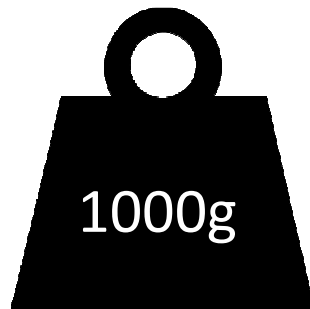
5^2



$7^2 - 2^2$

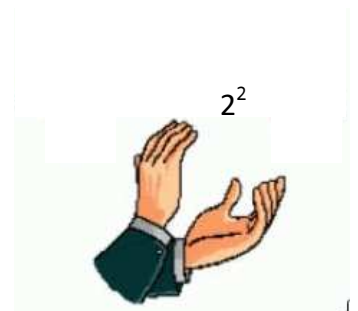


1000g



$2^3 + 3^2$

2^2



Cipher table

Alpha	Bravo	Charlie	Delta	Echo	Foxtrot	Golf	Hotel	India
Juliet	Kilo	Lima	Mike	November	Oscar	Papa	Quebec	Romeo
Sierra	Tango	Uniform	Victor	Whisky	X-ray	Yankee	Zulu	

Decipher this:

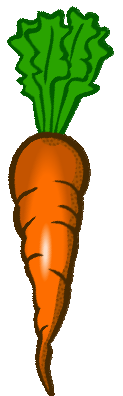
140	27	8	10	55	36	8	16	4	45
12	55	10	10	27	55	75	3	8	140
27	8	4	7	10	55				

Clue 3—Inspector Morse in his prime

In this message a prime number represents a . and a non prime, a _

1,4	26,17,37,	68,75,99	59	71,47,19	91,61	18,55,63	27
23,15,73,53	2,29	39,6742	19	17,38,83	63,69,49	93,44,8	87
11,31,97,16	13	46,78,3	97	84	41,57	33,89,47,5	2,77,37,7
43	61,97,29						

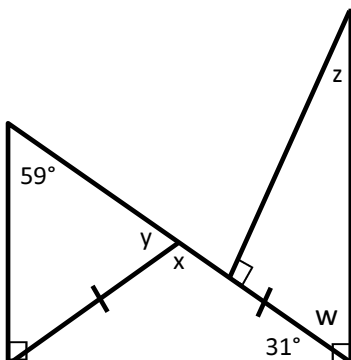
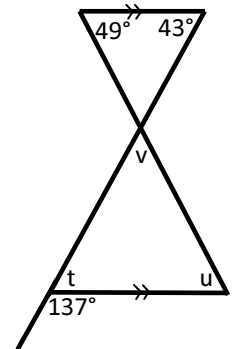
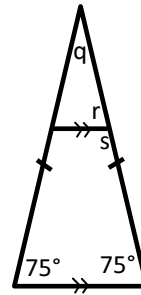
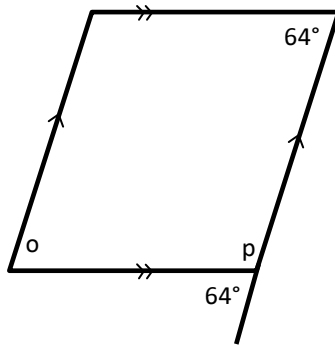
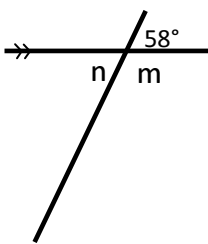
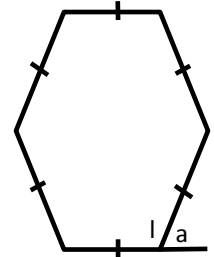
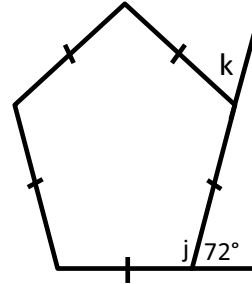
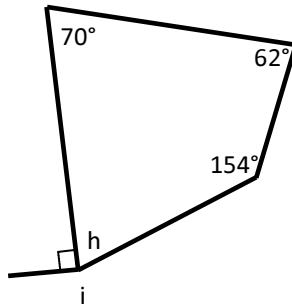
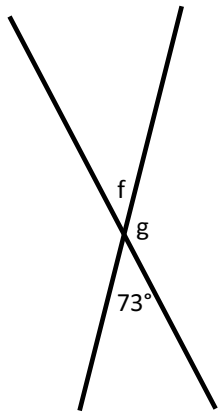
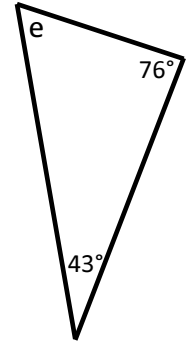
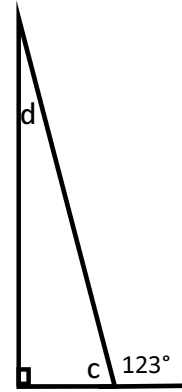
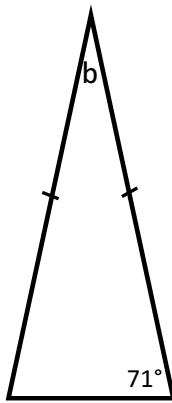
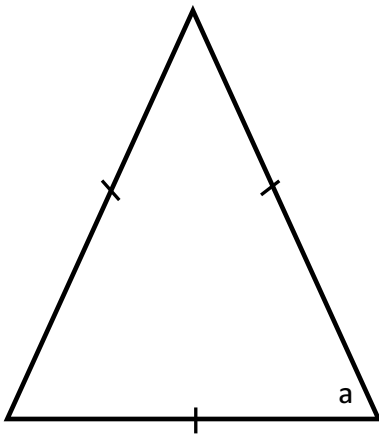
A	..	J	..---	S	...	1	..-----
B	....	K	---.	T	-	2	..-----
C	....	L	....	U	...-	3--
D	---	M	--	V	....-	4-
E	.	N	..	W	...-	5	....
F	...-	O	---	X	....-	6	....
G	---	P	....	Y	....-	7	....
H	....	Q	....-	Z	....	8	....
I	..	R	...-	0	-----	9	....



Clue 4—a new angle on the case

A

Find the angles a-z without using a protractor—the shapes are not drawn to scale. Use your answers to decode the message.



a	b	c	d	e	f	g	h	i	j	k	l	m
n	o	p	q	r	s	t	u	v	w	x	y	z

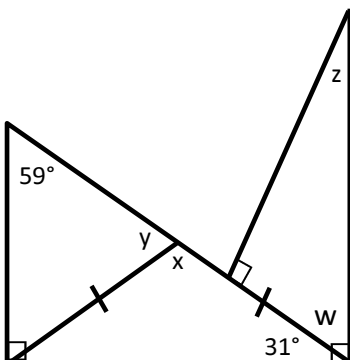
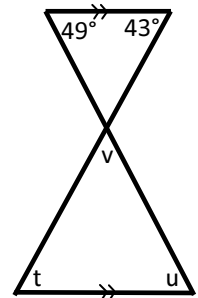
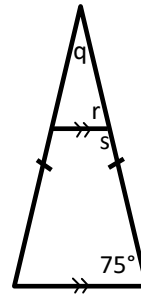
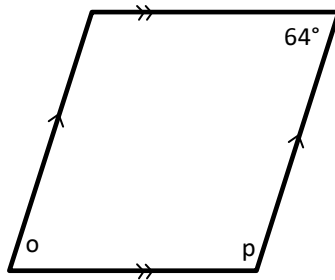
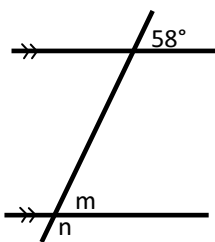
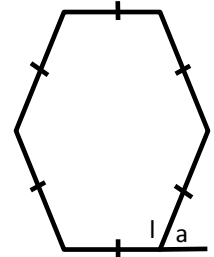
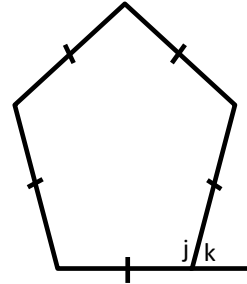
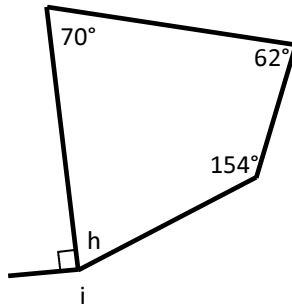
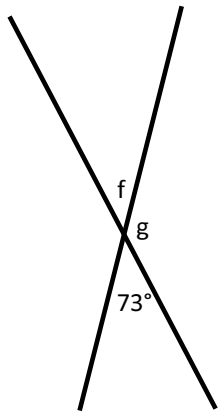
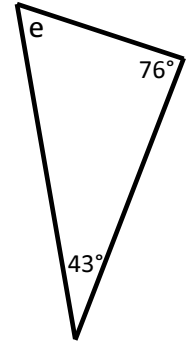
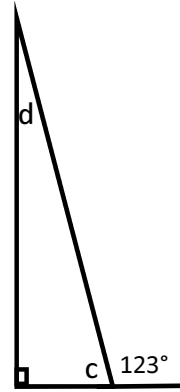
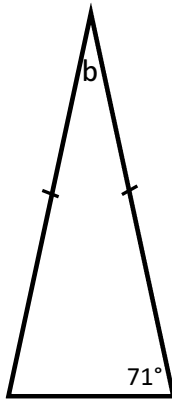
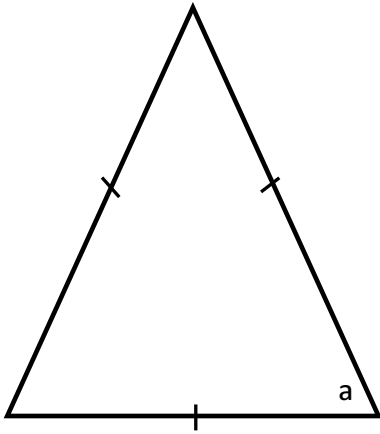
58°	75°	61°	122°	43°	105°	60°	122°
60°	120°	120°	64°	43°	58°	61°	122°
43°	59°	196°	43°	74°	60°	122°	64°
33°	33°	122°	49°	58°	38°	61°	75°



Clue 4—a new angle on the case

AA

Find the angles a-z without using a protractor—the shapes are not drawn to scale. Use your answers to decode the message.



a	b	c	d	e	f	g	h	i	j	k	l	m
n	o	p	q	r	s	t	u	v	w	x	y	z

58°	75°	61°	122°	43°	105°	60°	122°
60°	120°	120°	64°	43°	58°	61°	122°
43°	59°	196°	43°	74°	60°	122°	64°
33°	33°	122°	49°	58°	38°	61°	75°





Clue 5—Turning the tables

A



Find where each number would be in the tables square. Some numbers eg 12 can be in more than one place (3x4,6x2,1x12).

36	21	28	64	24	132	55	56	96	16	8	121	9	54	1	48
33	32	42	18	110	25	66	30	84	108	10	27	12	144	49	

X	1	2	3	4	5	6	7	8	9	10	11	12
1	t	c	f	y	p	k	w	e	e	b	q	a
2	c	q	r	e	b	a	u	s	e	t	y	s
3	f	r	e	a	r	e	d	s	e	h	l	m
4	y	e	a	s	g	s	o	i	m	y	j	i
5	p	b	r	g	o	h	b	e	b	v	o	a
6	k	a	e	s	h	m	z	i	r	w	n	d
7	w	u	d	o	b	z	d	t	s	g	c	i
8	e	s	s	i	e	i	t	e	d	t	k	u
9	e	e	e	m	b	r	s	d	l	h	l	s
10	b	t	h	y	v	w	g	t	h	w	r	p
11	q	y	l	j	o	n	c	k	l	r	f	n
12	a	s	m	i	a	d	i	u	s	p	n	r



Clue 5—Turning the tables

AA



Find where each number would be in the tables square. Some numbers eg 12 can be in more than one place (3x4,6x2,1x12). In this case **only one** of the multiplications will give the correct letter. You have to work out which one!

36	21	28	64	24	132	55	56	96	16	8	121	9	54	1	48
33	32	42	18	110	25	66	30	84	108	10	27	12	144	49	

X	1	2	3	4	5	6	7	8	9	10	11	12
1	t	c	f	y	p	k	w	y	a	s	q	i
2	c	q	r	e	b	e	u	l	p	t	y	l
3	f	r	e	a	r	e	d	s	e	t	l	m
4	y	e	a	s	g	d	o	i	m	y	j	i
5	p	b	r	g	o	h	b	e	b	v	o	a
6	k	e	e	d	h	m	z	u	r	w	n	d
7	w	u	d	o	b	z	d	t	s	g	c	i
8	y	l	s	i	e	u	t	e	d	t	k	u
9	a	p	e	m	b	r	s	d	l	h	l	s
10	s	t	t	y	v	w	g	t	h	w	r	p
11	q	y	l	j	o	n	c	k	l	r	f	n
12	i	l	m	i	a	d	i	u	s	p	n	r