

Sabotage at the Ski Resort

The Summit Ski Resort is a very popular destination for ski enthusiasts. Every year, thousands of people swish down the snowy slopes in search of excitement and fun.

This year is no different... but there has been a crime committed! Somebody has sabotaged the cable cars and they have stopped, with skiers suspended in mid-air! After they were all rescued by helicopter, the police have been investigating exactly what happened.

As the Detective Chief Inspector, it is your job to work out who the saboteur is. Your officers have taken down the names and descriptions of the guests who were booked to use the slopes that day. Your task is to solve the clues and work out who has sabotaged the ski lifts!



Descriptions of the ski guests at the resort

Name	Male/ Female	Age	Left/ Right handed	Experienced Skier	Height
Amelia Killen-Browne	F	36	R	Y	short
Annabelle Parr	F	19	L	N	tall
Barry Shaw	M	37	L	N	tall
Donna Day	F	39	R	N	tall
Fenella Bentley	F	56	R	Y	tall
Gavin Winters	M	45	R	N	short
Gurdeep Mehmi	M	23	R	N	short
James Hanson	M	28	L	N	tall
Janice Twist	F	55	R	Y	short
Jess Farmer	F	24	R	N	short
Keith Leyton	M	50	R	Y	short
Ken Corder	M	49	R	Y	tall
Larry Peters	M	48	R	N	tall
Lee Barker	M	25	L	N	tall
Linda May	F	47	R	Y	short
Ling Chang	M	28	L	Y	short
Mei Chang	F	27	R	Y	short
Michael Killen-Browne	M	37	R	Y	tall
Nancy Greene	F	40	R	N	tall
Phil Mahre	M	24	L	N	tall
Ramesh Iqbal	M	32	R	Y	short
Ray Turnbull	M	47	L	Y	tall
Rosie McClusky	F	27	R	Y	short
Sinead West	F	54	L	Y	short
Teresa Castle	F	48	L	Y	tall
Terry McIntosh	M	48	R	N	tall
Ting Ng	F	44	R	Y	short
Vern Framble	M	51	R	Y	tall
Wendy Simpson	F	60	L	Y	short
Zarah Sharif	F	18	R	N	tall

Clue 1

Work out if the answers below are correct or not. Put a tick or cross in the empty boxes.

Count up the ticks and crosses. If there are more ticks than crosses, the saboteur is female.

$42 \div 6 = 7$

$\frac{3}{4}$ of 120 = 50

$\frac{2}{5}$ equals 0.60

-8 is greater than -6

Add 2 to $-7 = -4$

$12 \times 8 = 96$

$210 \div 3 = 50$

$\frac{2}{5}$ of 35 = 14

Clue: **The saboteur is M or F.** Circle the correct answer.

Clue 2

Identify the Roman numerals below, then circle the corresponding numbers in the table. Re order the words next to those numbers, to make a sentence.

113 was	34 not	48 person	27 saboteur	99 because	116 skier
660 experienced	200 but	1400 the	55 didn't	60 lost	1000 under
450 damaged	150 an	400 which	70 left	2000 jump	105 found

MIII

XXVII

XXX

XLV

MCD

CL

CXVI

CCCL

CXIII

LVI

DCLX

XL

Clue: _____

Clue 3

Continue the sequences of equivalent fractions. Then match the last fraction with the words in the box below. Write the words in the correct order to solve this clue.

$\frac{1}{4}$	→	$\frac{2}{8}$	→	□	→	□	→	□
$\frac{2}{3}$	→	$\frac{4}{6}$	→	□	→	□	→	□
$\frac{5}{8}$	→	$\frac{10}{16}$	→	□	→	□	→	□
$\frac{3}{10}$	→	$\frac{6}{20}$	→	□	→	□	→	□
$\frac{4}{5}$	→	$\frac{8}{10}$	→	□	→	□	→	□

$\frac{8}{16}$ short	$\frac{11}{88}$ heavy	$\frac{10}{15}$ saboteur	$\frac{14}{32}$ stand	$\frac{15}{50}$ very
$\frac{12}{60}$ rescue	$\frac{5}{20}$ the	$\frac{18}{27}$ under	$\frac{13}{25}$ found	$\frac{2}{9}$ left
$\frac{10}{40}$ could	$\frac{10}{20}$ a	$\frac{3}{4}$ near	$\frac{25}{40}$ was	$\frac{25}{30}$ for
$\frac{20}{25}$ tall	$\frac{20}{100}$ did	$\frac{24}{80}$ stool	$\frac{1}{6}$ drop	$\frac{17}{29}$ ski

Clue: _____

Clue 4

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

Work out the sentence from these coordinates to solve the clue number 4.

(4, 1) (2, 3) (1, 1) / (4, 5) (1, 1) (4, 3) (4, 2) (3, 1) (3, 2) /

(5, 3) (1, 5) (4, 2) / (1, 4) (1, 1) (4, 1) (5, 3) (1, 1) (1, 1) (3, 2) /

(2, 5) (3, 1) (4, 3) (4, 1) (5, 2) / (1, 5) (3, 2) (1, 2) /

(2, 5) (2, 2) (2, 5) (4, 1) (5, 2) / (5, 2) (1, 1) (1, 5) (4, 3) (4, 2) /

(3, 1) (3, 4) (1, 2)

Clue: _____

Clue 5

Use your knowledge of prime numbers to solve this.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

First, highlight every prime number to 100.

Then look at the numbers in the circles. Write the nearest prime number lower than the number in the left hand boxes and the nearest prime number higher in the right hand boxes.

Then add each column of boxes up.

If either column adds to exactly 183, the saboteur is left handed.

	←	45	→	
	←	15	→	
	←	9	→	
	←	68	→	
	←	34	→	

Clue: The saboteur is left or right handed. Circle the correct word.

Who is the saboteur of the Summit Ski Resort cable cars? _____

Clue 1

$42 \div 6 = 7$



$\frac{3}{4}$ of 120 = 50



$\frac{2}{5}$ equals 0.60



-8 is greater than -6



$\text{Add } 2 \text{ to } -7 = -4$



$12 \times 8 = 96$



$210 \div 3 = 50$



$\frac{2}{5}$ of 35 = 14



Clue: **The saboteur is M.**

Clue 2

113 was	34 not	48 person	27 saboteur	99 because	116 skier
660 experienced	200 but	1400 the	55 didn't	60 lost	1000 under
450 damaged	150 an	400 which	70 left	2000 jump	105 found

MIII

XXVII

XXX

XLV

MCD

CL

CXVI

CCCL

CXIII

LVI

DCLX

XL

Clue: **The saboteur was an experienced skier.**

Clue 3

$\frac{1}{4}$	→	$\frac{2}{8}$	→	$\frac{3}{12}$	→	$\frac{4}{16}$	→	$\frac{5}{20}$
$\frac{2}{3}$	→	$\frac{4}{6}$	→	$\frac{6}{9}$	→	$\frac{8}{12}$	→	$\frac{10}{15}$
$\frac{5}{8}$	→	$\frac{10}{16}$	→	$\frac{15}{24}$	→	$\frac{20}{32}$	→	$\frac{25}{40}$
$\frac{3}{10}$	→	$\frac{6}{20}$	→	$\frac{9}{30}$	→	$\frac{12}{40}$	→	$\frac{15}{50}$
$\frac{4}{5}$	→	$\frac{8}{10}$	→	$\frac{12}{15}$	→	$\frac{16}{20}$	→	$\frac{20}{25}$

$\frac{8}{16}$ short	$\frac{11}{88}$ heavy	$\frac{10}{15}$ saboteur	$\frac{14}{32}$ stand	$\frac{15}{50}$ very
$\frac{12}{60}$ rescue	$\frac{5}{20}$ the	$\frac{18}{27}$ under	$\frac{13}{25}$ found	$\frac{2}{9}$ left
$\frac{10}{40}$ could	$\frac{10}{20}$ a	$\frac{3}{4}$ near	$\frac{25}{40}$ was	$\frac{25}{30}$ for
$\frac{20}{25}$ tall	$\frac{20}{100}$ did	$\frac{24}{80}$ stool	$\frac{1}{6}$ drop	$\frac{17}{29}$ ski

Clue: The saboteur was very tall.

Clue 4

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

Work out the sentence from these coordinates to solve the clue number 4.

(4, 1) (2, 3) (1, 1) / (4, 5) (1, 1) (4, 3) (4, 2) (3, 1) (3, 2) /

THE PERSON

(5, 3) (1, 5) (4, 2) / (1, 4) (1, 1) (4, 1) (5, 3) (1, 1) (1, 1) (3, 2) /

WAS BETWEEN

(2, 5) (3, 1) (4, 3) (4, 1) (5, 2) / (1, 5) (3, 2) (1, 2) /

FORTY AND

(2, 5) (2, 2) (2, 5) (4, 1) (5, 2) / (5, 2) (1, 1) (1, 5) (4, 3) (4, 2) /

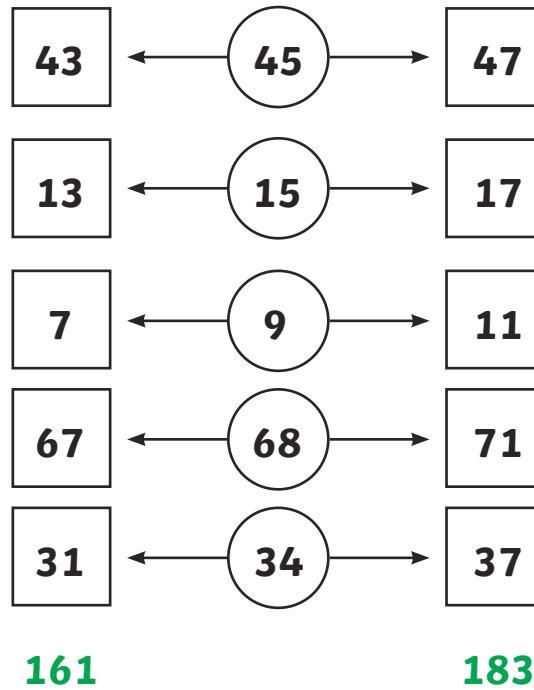
FIFTY YEARS

(3, 1) (3, 4) (1, 2)

OLD

Clue: The person was between forty and fifty years old.

Clue 5



Clue: The saboteur is left handed.

The saboteur of the Summit Ski Resort cable cars is Ray Turnbull!