# Robbery at the Valentine's Day Disco

Instructions

There has been a robbery at the Beasley Town Hall Valentine's Day disco!

A lady's brown leather handbag has been stolen from the back of a chair next to the dancefloor. It had quite a lot of money in it and an expensive mobile phone.

You are the Detective Inspector in charge of leading the investigation to discover the identity of the thief. Use the descriptions of the people still at the disco at that time and the five clues that have been discovered. You only have a short amount of time to work out who the culprit is or you're off the case!

Good luck.
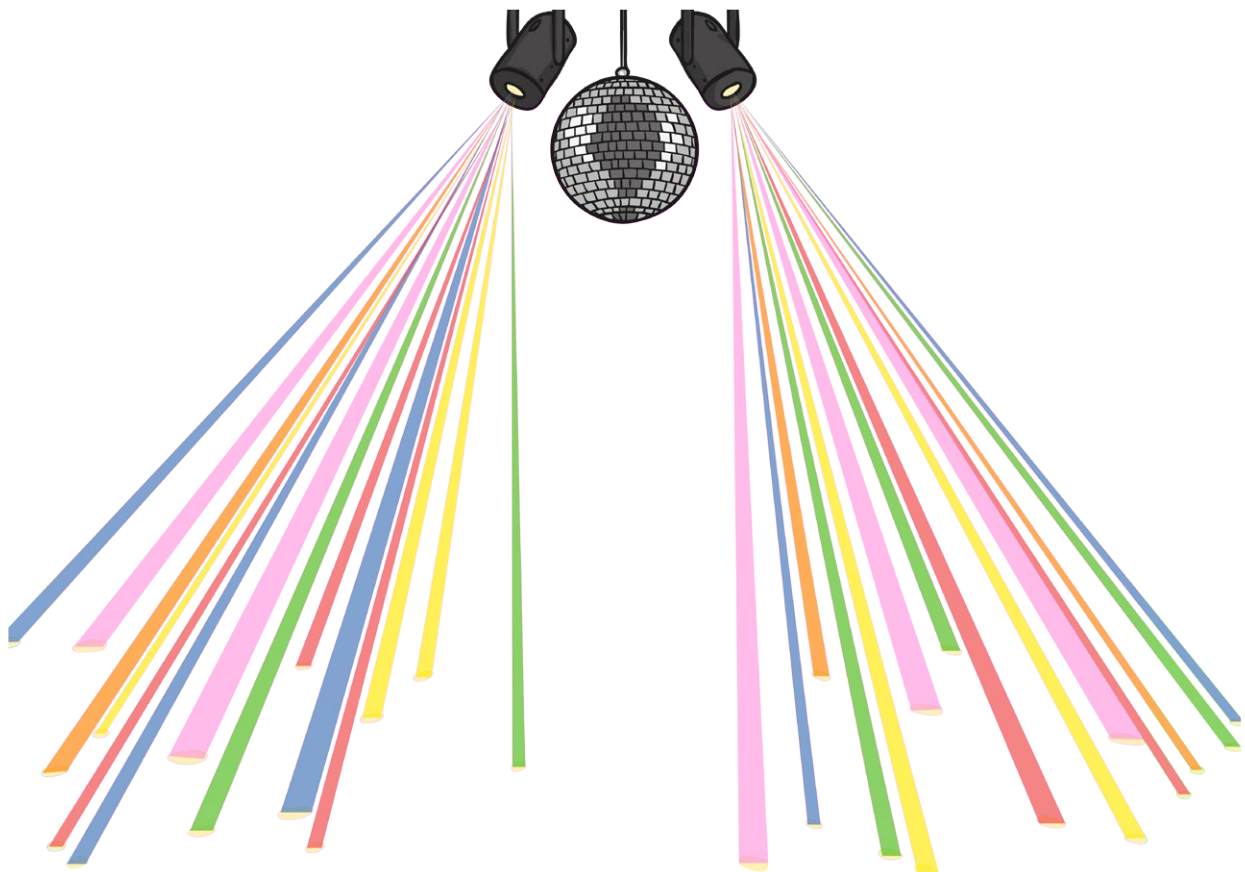
Name	M/F	Height	Age	Hair Colour	Glasses
Carrie Jones	F	tall	27	blonde	N
Michael Timms	M	tall	30	black	N
Jessie Mayer	F	short	41	blonde	Y
Jake Peters	M	tall	35	blonde	N
Josh McArdle	M	short	23	brown	Y
Symmon Ying	M	tall	26	black	Y
Simone Beaumont	F	short	28	brown	Y
Sally Forth	F	short	40	brown	N
Frankie Brown	M	tall	31	black	Y
Kim West	F	tall	28	blonde	N
Heather Green	F	tall	25	blonde	N
Ben Towers	M	short	19	black	Y
David Langston	M	short	29	blonde	N
Sean Clemson	M	tall	43	black	Y
Phillipa Till	F	short	28	blonde	N
Adam Tern	M	short	31	black	N
John Bank	M	tall	42	brown	N
Hannah Post	F	short	39	black	N
Ella Mason	F	tall	40	blonde	N
Hamish McEwan	M	tall	38	brown	Y
Beth Swift	F	tall	32	blonde	N
Grace Kean	F	short	42	brown	Y
Mackenzie Pierce	M	tall	31	black	Y
River Hayes	M	short	30	brown	Y
Hollie Frasier	F	tall	45	black	Y
Iona Ford	M	short	44	brown	N
Stewart Jessop	M	tall	40	blonde	N
Halima Singh	F	short	35	black	N
Annika Bauer	F	tall	30	blonde	N
Steve Thompson	M	short	35	black	Y
Lily Garrick	F	tall	41	brown	N
Harriet Cresswell	F	short	35	blonde	Y

Clue 1 Right or Wrong

Here is a list of different calculations which you need to check.

If there are more incorrect than correct, then the robber is male.

$3030 \div 10 = 303$ $811 \div 100 = 8.11$

$4.8 \times 100 = 480$ $2292 \div 6 = 1282$

$7.2 \times 100 = 0.72$ $7650 \div 10 = 765$

$3.12 \times 10 = 312$ $12.5 \times 10 = 125$

$1944 \div 3 = 648$ $2.06 \times 100 = 2006$

$95 \div 10 = 9.5$ $1230 \times 3 = 3660$

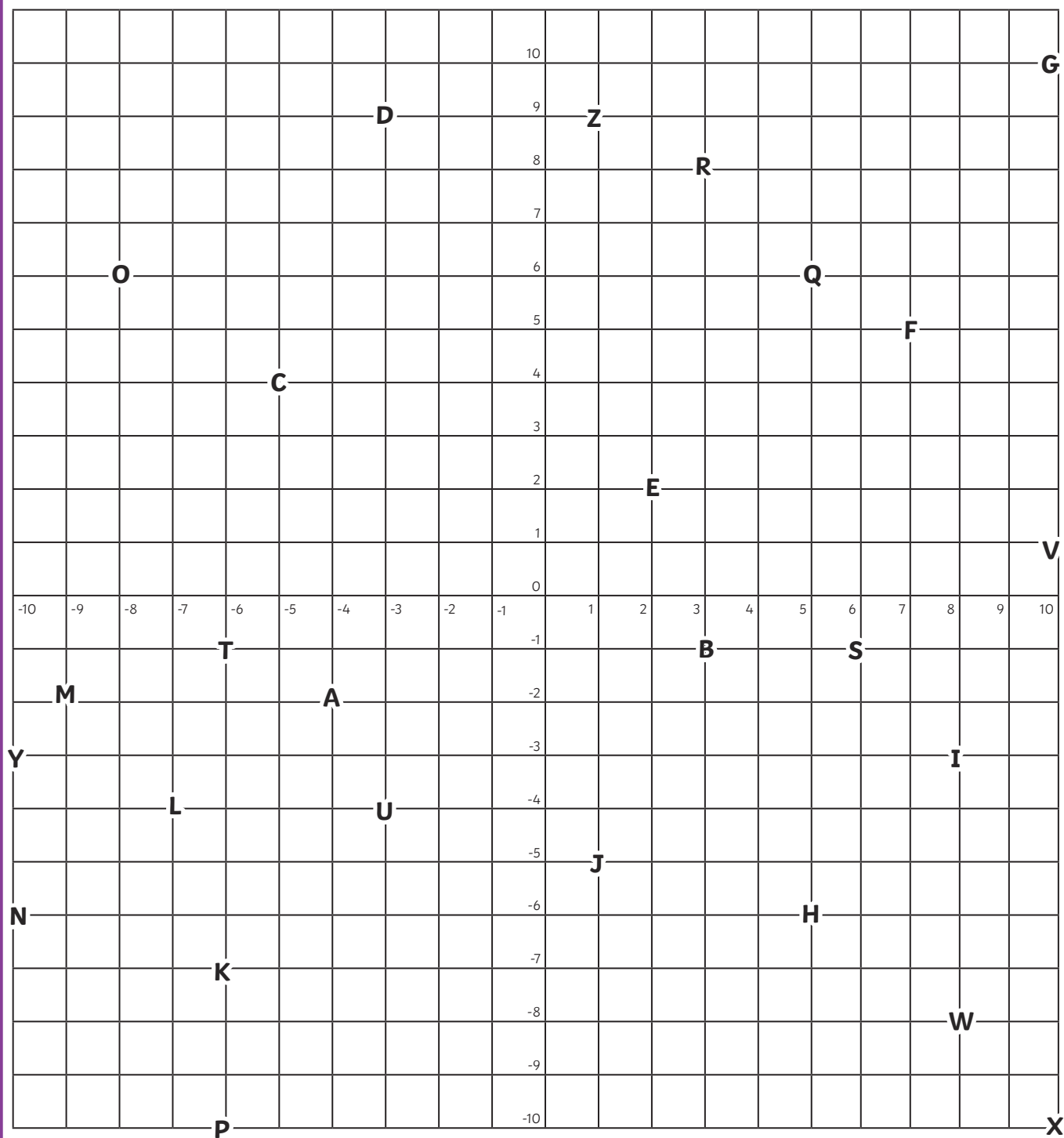$4851 \div 9 = 529$ $3660 \div 6 = 610$

$6.5 \times 10 = 0.65$ $297 \times 3 = 891$

Clue: Circle the correct letter.

The robber is   M   or   F

Clue 2 How Do You Measure Up?

(-6,-1) (5,-6) (2,2)   /   (3,8) (-8,6) (3,-1) (3,-1) (2,2) (3,8) /

(8,-8) (-4,-2) (6,-1)   /   (-10,-6) (-8,6) (-6,-1)   /   (-4,-2)   /

(-6,-1) (-4,-2) (-7,-4) (-7,-4)   /   (-6,-10) (2,2) (3,8) (6,-1) (-8,6) (-10,-6)

Clue: _____

Clue 3 Keep it Simple

A	B	C	D	E	F	G	H	I	J	K	L	M
7/10	4/9	2/9	2/15	2/24	1/3	3/35	7/12	5/8	1/16	2/18	3/5	9/10

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
2/3	3/11	1/17	2/8	4/7	3/8	4/12	8/16	5/10	3/4	1/15	7/8	5/20

Simplify these fractions as far as you can and find the correct fraction in the table above. Spell out the words to solve the clue.

First word: 14/24   21/30   25/40   16/28

Second word: 25/40   24/64

Third word: 36/81   16/28   36/132   18/24   32/48

Clue: _____

Clue 4 Can you find it?

The equation to find the perimeter of a rectangle is P = 2l + 2w

Fill in the missing answers and find the corresponding word in the table below to solve the clue.

Length (cm)	Width (cm)	Perimeter (cm)
2	4	
6	10	
	8	44
21	16	
26		136
	48	168

36 glasses	8 had	12 robber	22 bag
28 lost	17 forty	100 stole	32 case
84 male	14 the	3 tall	40 found
73 some	65 aged	58 in	74 had
42 a	39 park	18 before	27 coat

Clue: _____

Clue 5 What Decade?

A	B	C	D	E	F	G	H	I	J	K	L	M
22	105	30	6	49	25	14	82	64	94	2	19	7

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
11	100	115	303	4	1	81	12	28	55	76	26	50

Identify all the square numbers in the chart.

Use the letters to work out which decade the age of the robber was.

Clue: The robber of the Valentine's Day disco is _____

Answers

Left column

Question	Answer	
	3030 ÷ 10 = 303	
	4.8 × 100 = 480	
X	7.2 × 100 = 0.72	720
X	3.12 × 10 = 312	31.2
	1944 ÷ 3 = 648	
	95 ÷ 10 = 9.5	
X	4851 ÷ 9 = 529	539
X	6.5 × 10 = 0.65	65
	811 ÷ 100 = 8.11	
X	2292 ÷ 6 = 1282	382
	7650 ÷ 10 = 765	
	12.5 × 10 = 125	
X	2.06 × 100 = 2006	206
X	1230 × 3 = 3660	3690
	3660 ÷ 6 = 610	
	297 x 3 = 891	

Clue 1 Right or Wrong

The robber is M or F. Circle around F

Clue 2 How Do You Measure Up?

(-6,-1)	(5,-6)	(2,2)	(3,8)	(-8,6)	(-8,6)	(3,-1)	(2,2)	(3,8)	
T	H	E	R	O	B	B	E	R	

Right column

(8,-8)	(-4,-2)	(6,-1)	(-10,-6)	(-8,6)	(-6,-1)	(-4,-2)			
W	A	S	N	O	T	A			

(-6,-1)	(-4,-2)	(-7,-4)	(-7,-4)	(-6,-10)	(2,2)	(3,8)	(6,-1)	(-8,6)	(-10,-6)
T	A	L	L	P	E	R	S	O	N

4/12	7/21	6/18	5/15	8/24

Clue: The robber was not a tall person.

Clue 3 Keep it Simple

First word: 14/24 21/30 25/40 16/28
                H   A   I   R

Second word: 25/40 24/64
                I   S

Third word: 36/81 16/28 36/132 18/24 32/48
                B   R   O   W   N

Clue: Hair is brown.

Length (cm)	Width (cm)	Perimeter (cm)
2	4	12
6	10	32
14	8	44
21	16	74
26	42	136
36	48	168

Clue: The robber had a glasses case.

Clue 5 What Decade?

E	F	I	O	R	S	T
49	25	64	100	4	1	81

Clue: Forties

The robber of the Valentine's Day disco was Grace Kean.