

Liskeard School &
Community College
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There's been a murder...

Can you use your detective skills to solve the puzzles and work out the murderer and motive?

Bring your completed booklet into school on the first day in September to get merits and house points!

Murder on the Cruise Ship

You have been called in as a last-minute emergency stand-in detective as the usual ones have inconveniently all disappeared on holiday. Unfortunately, there has been a brutal murder on board the luxury liner *The Liskeard Lady*. Local celebrity singer-songwriter Millicent Luxstowe has been found murdered. You will need to find out all the details of the murder to report back to Head Office.

Your task:

Solve the 10 clues to unravel all the following details:

Where the murder took place:	
What the murder weapon was:	
Who the murderer was:	
What the relationship was between the murderer and victim:	
Why the murderer committed the crime (the motive):	
When the murder took place:	

List of suspects

The following people were on board the cruise ship when the incident happened.

	Name	Reason for being on board	Cabin number	Age	Description of deceased
1	Cuthbert Carew	Captain	14	37	Beautiful, like the sun.
2	Mary Andrews	Vice-captain	25	49	Amazingly talented
3	Derek Bell	Customer service officer	72	52	Fantastic fun
4	Romaine D'Angello	Chef	42	54	Nasty and untrustworthy
5	Christine Boccia	Bar tender	27	23	Loved her like a sister
6	Mike Mellow	Excursions manager	73	27	Didn't really know her.
7	Millicent Luxstowe	Entertainer	13	33	Brilliant of course!
8	Julia Davies	Chief engineer	294	58	Bit too show-biz for me.
9	Craig Cruze	Hairdresser	878	43	Over confident in her, at best, weak abilities.
10	Julian Catzer	Accountant	3	44	Sweet-natured and playful as a kitten
11	Rowenna Mulrooney	Entertainments manager	11	32	She's a graceful swan – elegant and composed.
12	James Dunn	Receptionist	48	62	Bit of a show-off, but kind.
13	Jenny Jones	Customer	16	39	Seemed quite approachable
14	Carwen Carglaze	Customer	98	44	I didn't meet her.
15	Lianna Botzer	Customer	777	56	Very self-conscious, like she was being stalked.
16	Lennie Levine	Customer	53	79	Love her – she's the best!

17	Sophia Sophocles	Customer	87	29	She was ok I suppose – nothing to write home about!
18	David Carthage	Customer	93	36	An interesting and intriguing character.
19	Kit Rosterlidge	Customer	261	42	I would have liked to have spent more time with her.
20	Richard Raglan	Customer	32	58	Not as tall as she looks on the TV.
21	Paul Tarrant	Customer	46	42	I hated her dress – she looked frumpy.
22	Lisa Loveledge	Customer	7	44	Quite chatty with me – we had a long conversation.
23	Graham Green	Customer	665	75	As nervous as a dog at the vets.
24	Nicola Knight	Customer	23	38	Lovely girl – really gentle.
25	Carla Kerzlake	Customer	57	22	She looked like she was a bit uncomfortable.
26	Gerry Simmonds	Customer	36	89	I didn't really pay much attention to her.
27	Melissa Myers	Customer	31	68	Kept herself to herself – didn't seem to be very outgoing.
28	Catherine Kerzlake	Customer	57	17	Stunning, beautiful and radiant.
29	Kirsty Kerzlake	Customer	57	54	I avoided her – I really don't like the whole celebrity culture.
30	Colin Kerzlake	Customer	57	57	Very sure of herself – almost too sure.
31	Melanie Starr	Customer	587	48	She was a bit nervous I think – a bit overwhelmed.
32	Rita Belamy	Customer	674	82	A young girl early in her career – she's got a lot to learn.
33	Iris Nemo	Customer	124	88	Couldn't stand her!

Puzzle one:

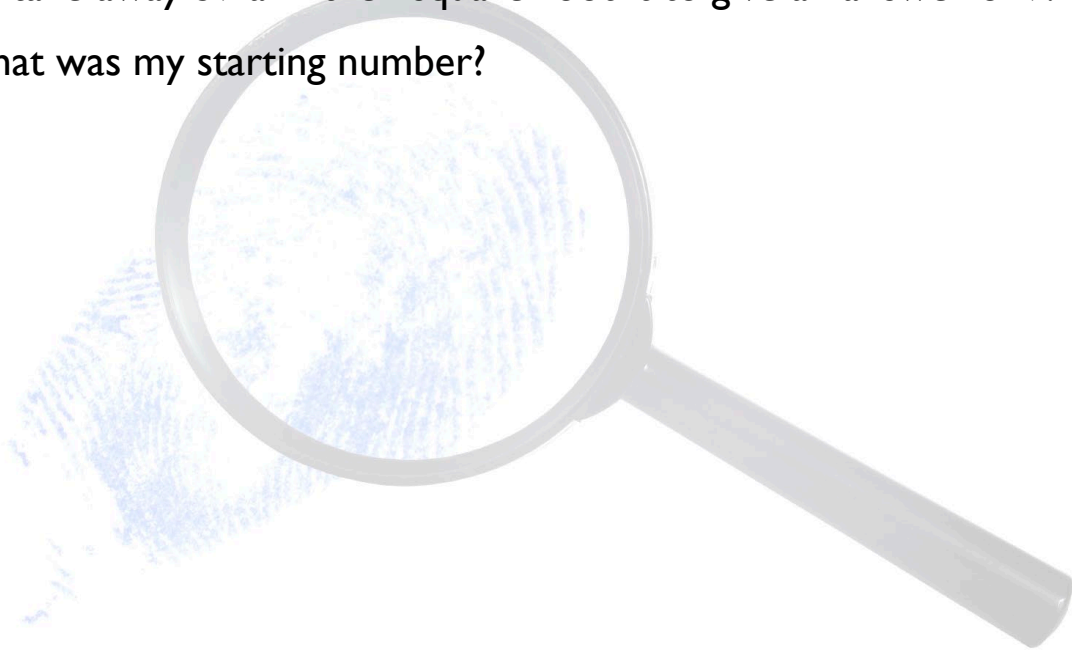
The murderer did not have an alliterative name.

Puzzle two:

The murderer was not in a cabin number which is a multiple of this number:

I think of a number and cube it. I add on 3 and multiply the result by 4. I take away 39 and then square root it to give an answer of 9.

What was my starting number?



Puzzle three:

All the customers were asked to write a review of Millicent Luxstowe's performance on the opening night. Only a few of the customers bothered to reply... Here are their responses:

Jenny Jones	A bit disappointingly boring - I prefer heavy metal music.
Carwen Carglaze	Not sure – I had my ear plugs in after 30 seconds.
Lianna Botzer	The performance was rowdy, ear-splittingly loud and uncomfortable to watch.
Lennie Levine	Amazing – I'm a big fan. That's why I'm on this trip!
Carla Kerzlake	Revolting performance – way too modern for me.
Gerry Simmonds	Not my style to be honest – I didn't think she was very graceful.
Colin Kerzlake	Her performance was brilliantly funny, but I'm not sure she meant it to be...
Melanie Starr	I hated it. Her singing was quite frankly raucous.
Rita Belamy	Although her singing was a touch discordant at times, on the whole I thought she did well.
Iris Nemo	Why would anyone with such a strident, grating noise coming from her throat think that she had talent?

The murderer did not use an adjective which is a synonym of 'rowdy'.

Puzzle four:

The murderer's age was not a square number.

Puzzle five:

The murderer used a metaphor to describe Millicent.

Puzzle six:

The murder victim was found on deck 11 of the cruise ship. To find out her position, you will need to solve the following clues:

Which of the following are **incorrect**? Your answers will reveal the square where Millicent's body was discovered:

A	B	C
$51 \div 3 \times 20 = 340$	$6^3 \div 2^3 = 27$	$12 + 4 \times 5 - 8 = 24$
D	E	F
$2(3 \times 5 + 24) = 78$	$\sqrt{1225} = 35$	$(35 - 3 \times 5)^2 = 400$
G	H	I
$\sqrt[3]{1000} = 10$	$12 + 3 \times 4 - 7 = 17$	$4 \times 3 \times 2 \times 1 \times 0 = 24$
J	K	
$20 - 4 \times 5 + 7 = 7$	$4 \times \sqrt{144} = 48$	
1	2	3
$24 \times 3 \div 6 = 12$	$0.23 \times 6.8 = 1.564$	$0.5(45 + 24 \div 8) = 24$
4	5	6
$7 \times 6 \times 5 + 4 = 214$	$56 \times (3 - 5) = -112$	$5(2 + 3 \times 4) = 22$

Puzzle seven:

Read the following extract from a page of a diary found ripped out and hidden behind the boiler.

I couldn't help it: she made me see red. I'd been chatting to her about what had happened with that customer and she just wouldn't see my point of view. Not everyone is going to like her style of music. Some customers are just not going to appreciate Justin Bieber songs sung to a classical music backing track.

Yesterday, there had been another incident and I was so sympathetic: I'm not sure how much she realises that I was on her side. I listened to her grumbles and made sure she was reassured that everyone still loved her singing and that she would be famous for ever. I don't mind a bit of ego boosting, but it's never returned.

Anyway, things reached crisis point and what happened just got out of hand so quickly. It was just too easy and I didn't think it would actually work – although I can't regret it too much. She'd got too big for her boots and deserved to be taken down a peg or two.

I'll go back and check on her when I've calmed down and she's learned her lesson...

Which **three** of the following statements are true?

A	The writer was angry with Millicent.	
B	The writer set out to kill Millicent.	
C	The murder was pre-planned.	
D	Millicent had been criticised for singing classical music.	
E	The writer was irritated by Millicent.	
F	The writer has been supportive of Millicent.	
G	The writer doesn't like Millicent's music.	

Reason for the murder:

Statements that are true	Reason for murder
ABE	The murderer was angry that Millicent had not been supportive in their conversations.
AGC	The murderer wanted to steal Millicent's money.
ABF	The murderer hated Millicent's music and didn't want to hear it any more.
DEG	The murderer was Millicent's sister and jealous of her money.
AEF	The murderer was jealous of Millicent's rise to fame.
AEG	The murderer wanted to stop Millicent's grumbling.

Puzzle eight:

When did the murder take place?

Dinner started at 8.30pm

No one could leave the dinner hall until the Captain had finished eating.

The Captain ate his starter in 14 minutes.

There was a break of 8 minutes in between the starter and main course.

The Captain then had a leisurely main course of haddock and potato cakes served with buttery green beans and a hollandaise sauce. That took him 31 minutes to consume.

The Captain always eats the same dessert every day. Captain Carew loves an Eton Mess. He feels the strawberry sauce balances out the sweetness of the sugary meringues and cream perfectly. He also ordered a coffee to help his food settle before evening rounds. The dessert only took 2 minutes to arrive and 5 minutes to eat. As soon as he had finished, he drank his coffee and left. He took 6 minutes to drink the coffee.

The murder happened 9 minutes after the Captain left the dinner hall.

What time was that using 24 hour clock?

Puzzle nine:

Compare and contrast the following information about the ship's food. The pair that contains similar information will reveal what the murderer disguised the poison in, e.g. if there are two similar points about pizzas, then the murderer used a poisoned pizza.

Text A	Text B
<ul style="list-style-type: none">• The meals in the main dining room of <i>The Liskeard Lady</i> are prepared by one of the world's leading nutritionists. Each meal is balanced for dietary content and flavour. For example, there will always be a healthy choice of proteins available, such as fresh fish, lentils or lean meats.• For maximum flavour, we blend a mixture of delicious juices to create spectacular drinks. These are created for you and can be designed by you.• Finally, there will always be a fruit option for dessert alongside some of the more luxurious offerings.	<ul style="list-style-type: none">• The café-bar on board <i>The Liskeard Lady</i> is a relaxed place to grab a snack or quick meal. Meal choices include burgers, chips and freshly made homemade cakes.• We serve a selection of puddings every day: cream cakes, icecreams and chocolate based treats.• To keep you refreshed, you can choose from our bar menu of cocktails. These are individually made to suit your tastes, so go mad with the flavour combinations!

Puzzle ten:

The relationship between the murderer and victim.

Use your understanding of shapes to work out the final clue.

	Shape	Relationship
A	Rectangle	Class mates at school
B	Right angle triangle	Sisters
C	Parallelogram	Former best friends
D	Circle	Cousins
E	Cube	Next door neighbours
F	Pyramid	Rival band members
G	Sphere	Met at university

- The shape is not 3D.
- The shape has more than one side.
- The shape has four vertices.
- The interior angles are not regular.