Puzzle sheet

1 Sudoku

Medium ■■□

					3		7	
	4				7			9
	7		8		5	3	1	
	1	9		7				
7		6				4		5
				2		7	9	
	9	4	1		8		6	
2			4				5	
	5		7					

Fill every empty square so that each row, each column and each 3×3 box holds the digits 1 to 9 once.

2 Word search: Cafe

T	S	A	T	N	M	I	L	K	F
S	E	W	R	T	O	I	C	P	C
Y	L	P	A	C	L	I	E	E	R
S	R	M	S	A	U	C	E	R	E
C	S	N	W	T	I	P	E	L	A
O	H	T	V	T	A	T	H	S	M
N	I	C	C	B	I	B	I	T	S
E	N	U	I	A	W	G	L	A	A
O	S	K	W	P	K	A	G	E	D
O	S	L	C	O	T	E	A	R	E

- ☐ **CAKE**
- ☐ **CREAM**
- ☐ **CUP**
- ☐ **MILK**
- ☐ **SAUCER**
- ☐ **SCONE**
- ☐ **TABLE**
- ☐ **TEA**
- ☐ **WAITER**

Find the nine words. They run across, down and diagonally, always forwards.

3 Mini mystery

CASE FILE

The Fizzing Table

Maya, Sofia and Zane showed projects at the science fair. Each looked after a different stand and kept one piece of kit.

1. Whoever was at the volcano table had the measuring jug.
2. Zane was not at the star-map stand.
3. Zane did not have the measuring jug.
4. Maya was not at the star-map stand.
5. Sofia did not have the stopwatch.

A puddle of fizzing foam appeared at the star-map stand, right next to the magnifier. **Who was at the star-map stand with the magnifier?**

	Volcano table	Robot corner	Star-map stand	Stopwatch	Magnifier	Measuring jug
Maya						
Sofia						
Zane						
Stopwatch						
Magnifier						
Measuring jug						

Each person was in one place with one thing, all different. Mark a dot for yes and a cross for no in the grid until only one answer fits.

4 Quiz: five questions

1. **Which of these is the heaviest?**
   - (A) 1 euro coin
   - (B) Bee hummingbird
   - (C) Table tennis ball
2. **Which of these came first?**
   - (A) Boston
   - (B) Don Quixote (part one)
   - (C) Robinson Crusoe
   - (D) Uppsala University
3. **How many protons are in the nucleus of a silver atom?**
   - (A) About 5.9
   - (B) About 12
   - (C) About 24
   - (D) About 47
4. **What is the capital of Denmark?**
   - (A) Dublin
   - (B) Copenhagen
   - (C) Riga
   - (D) Helsinki
5. **Which of these cities is furthest north?**
   - (A) Luanda (Angola)
   - (B) Port Louis (Mauritius)
   - (C) Durban (South Africa)
   - (D) Brisbane (Australia)

Circle one letter for each. Answers and sources on page 2.

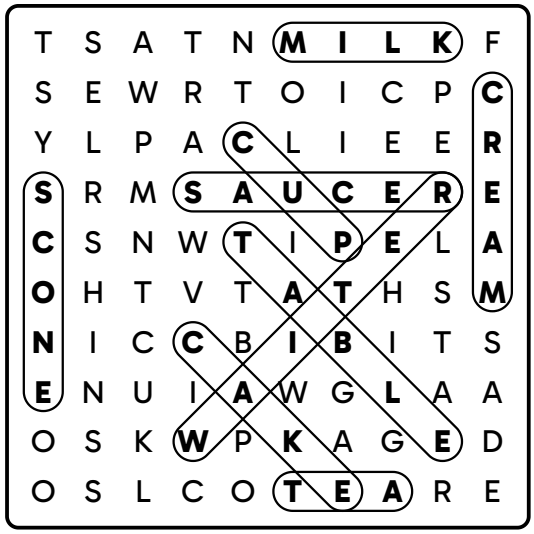
Answers

1 Sudoku

1	6	5	2	9	**3**	8	**7**	4
8	**4**	3	6	1	**7**	5	2	**9**
9	**7**	2	**8**	4	**5**	**3**	**1**	6
5	**1**	**9**	3	**7**	4	6	8	2
7	2	**6**	9	8	1	**4**	3	**5**
4	3	8	5	**2**	6	**7**	**9**	1
3	**9**	**4**	**1**	5	**8**	2	**6**	7
2	8	7	**4**	6	9	1	**5**	3
6	**5**	1	**7**	3	2	9	4	8

Bold digits were printed on the puzzle.

2 Word search: Cafe



Each word is ringed and set in bold.

3 Mini mystery

SOLVED

The Fizzing Table

	Volcano table	Robot corner	Star-map stand	Stopwatch	Magnifier	Measuring jug
Maya	●	×	×	×	×	●
Sofia	×	×	●	×	●	×
Zane	×	●	×	●	×	×
Stopwatch	×	●	×			
Magnifier	×	×	●			
Measuring jug	●	×	×			

Sofia was at the star-map stand with the magnifier.

Maya: volcano table, measuring jug
Sofia: star-map stand, magnifier
Zane: robot corner, stopwatch

4 Quiz

1. **A** · 1 euro coin: 7.5 g; Table tennis ball: 2.7 g; Bee hummingbird: 2.28 g
   Size Duel. Sources: ecb.europa.eu, wikidata.org, animaldiversity.org, snl.no, lex.dk
2. **D** · Uppsala University: 1477, founded; Don Quixote (part one): 1605, first published; Boston: 1630, founded; Robinson Crusoe: 1719, first published
   Older Than. Sources: snl.no, lex.dk, treccani.it, enciklopedija.hr, wikidata.org, uu.se
3. **D** · 47
   Ballpark. Sources: periodic-table.rsc.org, webelements.com
4. **B** · Copenhagen is the capital of Denmark.
   Atlas Play Capitals. Sources: wikidata.org, naturalearthdata.com
5. **A** · Luanda (Angola): 8.8° S; Port Louis (Mauritius): 20.2° S; Brisbane (Australia): 27.5° S; Durban (South Africa): 29.9° S
   Further North?. Sources: wikidata.org, naturalearthdata.com

Sudoku and word search made with the Puzzle Desk engines; quiz facts from Size Duel, Older Than, Population Duel, Further North?, Ballpark and Atlas Play, each checked against the sources listed. Mystery written and checked by our puzzle generator: exactly one answer.

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