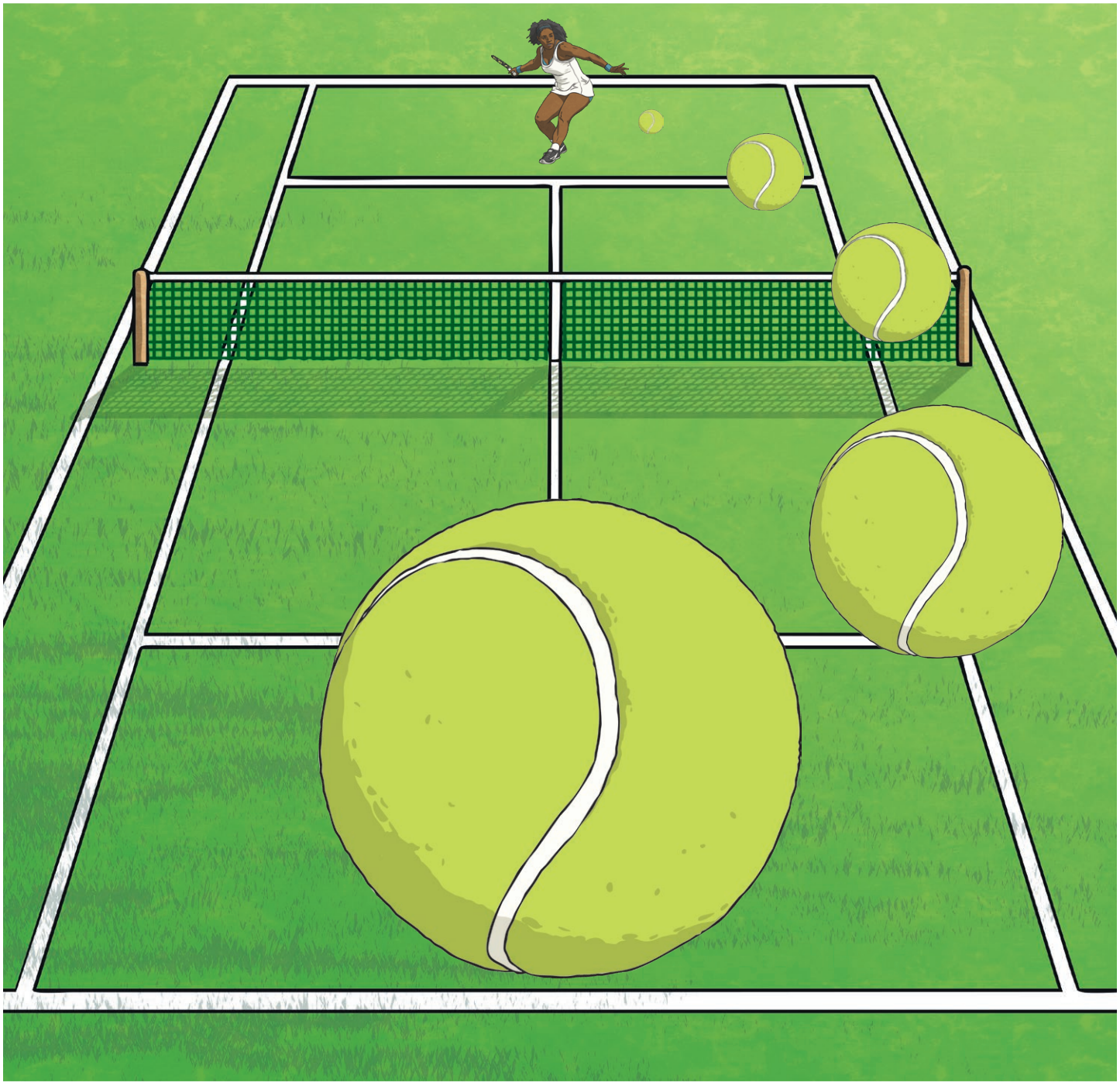
The Mystery of the Missing Tennis Balls

At this year's prestigious world tennis championships, the players are all prepared to challenge for the famous trophy. However, at the last minute the organisers discover that all the tennis balls have gone missing!

Can you solve the problems to find which wonderful player discovered the whereabouts of the tennis balls?

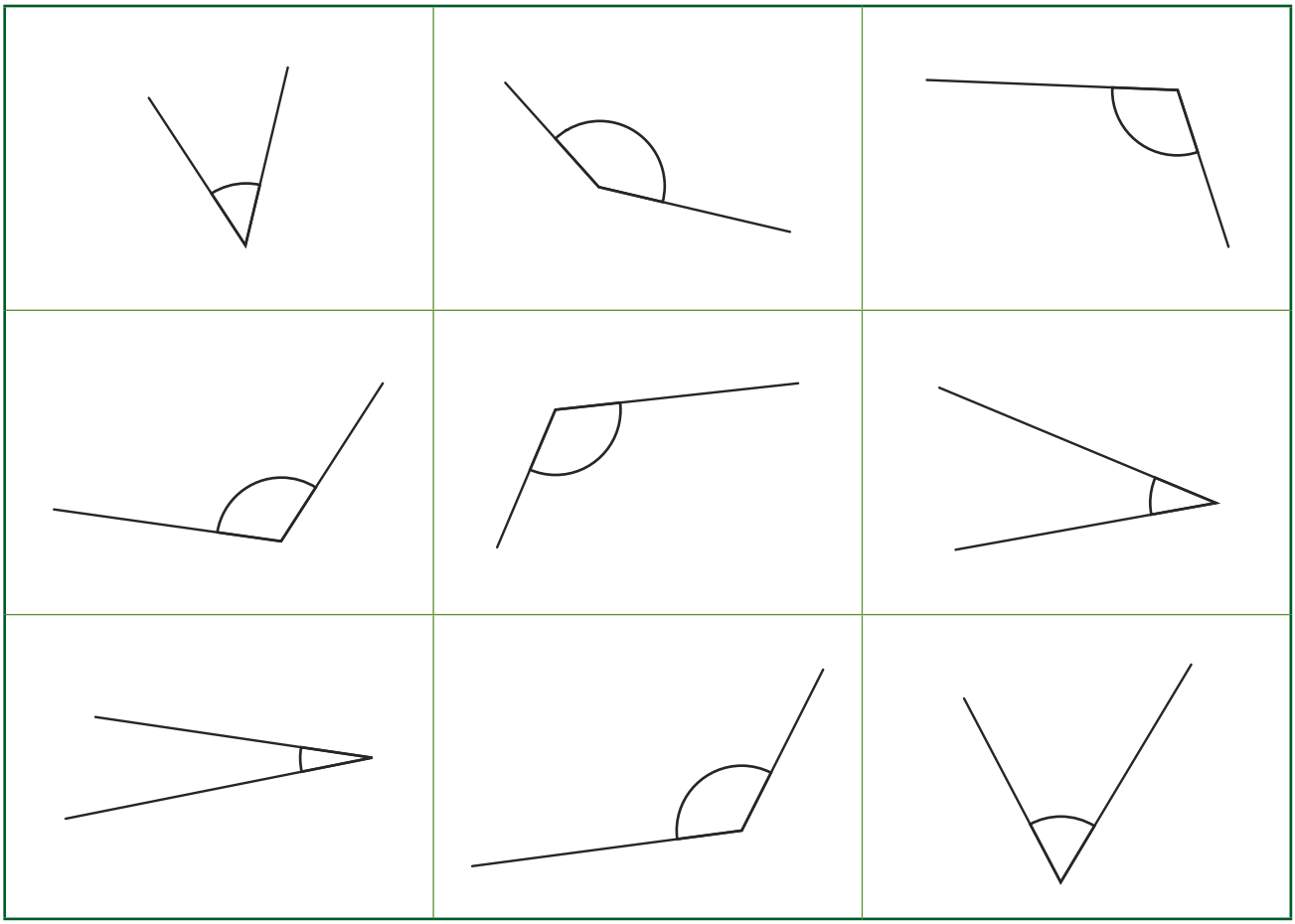


The Mystery of the Missing Tennis Balls

Player	Gender	Continent	Age	Kit Colour	Tennis Skill
Anna Avraham	F	Asia	24	Red	Serve
Bailey Brown	M	Europe	22	Green	Volley
Chow Chu	F	Asia	20	White	Slice
Daniel Diaz	M	South America	21	Blue	Speed
Elif Earl	F	Australasia	27	Purple	Backhand
Felix Falade	M	Africa	31	Black	Slice
Georgie Gonzales	F	North America	35	White	Serve
Harnam Hafeez	F	Australasia	25	Green	Volley
India Ings	F	Europe	30	Purple	Serve
Joshua Jelani	M	Africa	21	White	Slice
Kuljeet Kimura	F	Asia	23	Green	Volley
Li Lopez	M	South America	24	Black	Speed
Matt Martin	M	Australasia	34	Blue	Backhand
Nikita Naylor	F	North America	31	Black	Slice
Odetta Otto	F	Europe	30	Green	Serve
Preet Patel	M	Asia	20	Purple	Volley
Queenie Quarrie	F	Australasia	19	Blue	Backhand
Rehan Romero	M	South America	23	White	Serve
Sophie Selassie	F	Africa	22	Black	Speed
Thierry Toussaint	M	Europe	32	Purple	Volley
Violet Vera	F	North America	27	Blue	Speed
Wen Wu	F	Asia	24	Black	Slice

Clue 1: Angles Greater Than or Less Than a Right Angle

Identify whether each angle is greater than or less than a right angle. The answer that occurs the most will give a clue about who finds the tennis balls.



The majority of angles were less than a right angle.	The majority of angles were greater than a right angle.
The player doesn't come from Europe.	The player doesn't come from Africa.

Clue

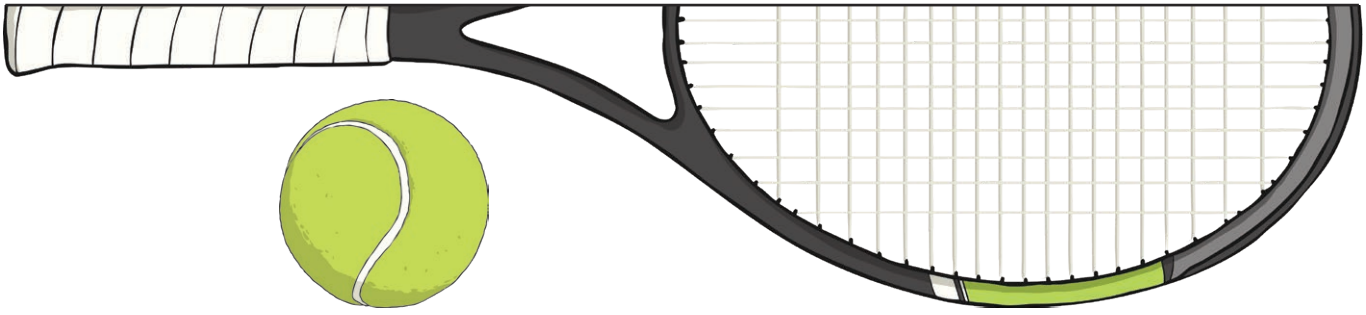
The player who finds the tennis balls doesn't come from _____ .

Clue 2: Equivalent Measures

Find a path through the maze by colouring in the correct equivalent measures.

The path will reveal a clue about player who finds the tennis balls.

START	1m = 100cm	3000g = 3kg	4l = 4000ml	2m = 200cm
3m = 300cm	6km = 600m	2l = 200ml	2m = 2000km	1000g = 1kg
4m = 400mm	1l = 1000ml	4m = 400cm	2km = 2000m	5cm = 50mm
2000g = 2kg	3m = 3000mm	3km = 3000cm	2l = 2000ml	100g = 1kg
4m = 4000cm	3l = 3000ml	50mm = 5cm	4l = 400ml	5m = 500cm
5l = 5000ml	1km = 10cm	4000g = 4kg	2m = 20cm	5000m = 5km
The tennis player's special skills are not backhand or volley.	The tennis player's special skills are not slice or serve.	The tennis player's special skills are not speed or slice.	The tennis player's special skills are not volley or serve.	The tennis player's special skills are not backhand or slice.



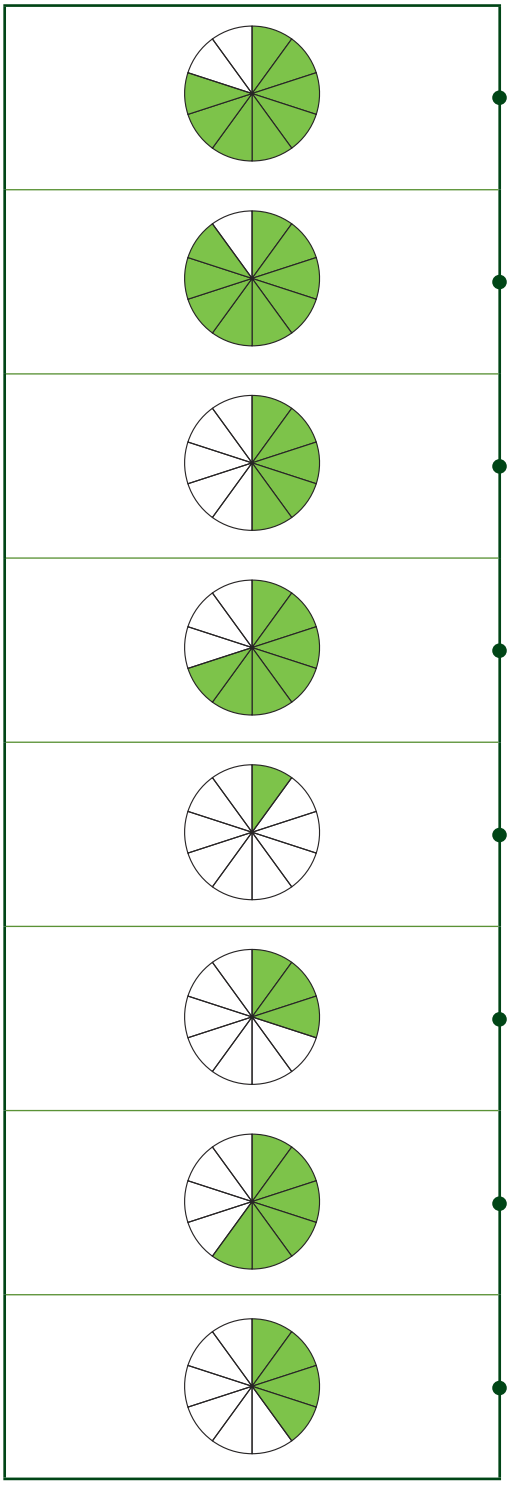
Clue

The special skill of the tennis player who finds the tennis balls isn't a _____.

Clue 3: Tennis Tenths

Match the calculation to the correct answer shown by the shaded circle.

The one remaining answer will tell you a clue about the player who finds the tennis balls.



$\frac{4}{10} + \frac{3}{10}$	The player's kit is blue or black.
$\frac{9}{10} - \frac{1}{10}$	The player's kit is green or black.
$\frac{3}{10} - \frac{2}{10}$	The player's kit is green or blue.
$\frac{6}{10} + \frac{3}{10}$	The player's kit is white or black.
$\frac{7}{10} - \frac{3}{10}$	The player's kit is green or purple.
$\frac{8}{10} - \frac{6}{10}$	The player's kit is blue or white.
$\frac{1}{10} + \frac{2}{10}$	The player's kit is purple or white.
$\frac{2}{10} + \frac{4}{10}$	The player's kit is black or purple.
$\frac{4}{10} + \frac{1}{10}$	The player's kit is white or green.

Clue

The player who finds the tennis balls has a _____ or _____ kit.

Clue 4: Comparing Fractions

Look at each fraction comparison. If it is correct, put a tick. If it is incorrect, put a cross. Count the number of ticks and crosses.

If there are more ticks than crosses, the player who finds the tennis balls is female.
If there are more crosses than ticks, the player who finds the tennis balls is male.

	Correct ✓	Incorrect ✗
$\frac{1}{3} > \frac{1}{5}$		
$\frac{7}{12} < \frac{5}{12}$		
$\frac{1}{4} > \frac{1}{2}$		
$\frac{5}{8} > \frac{3}{8}$		
$\frac{4}{5} > \frac{1}{5}$		
Total		

Clue

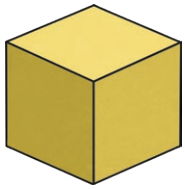
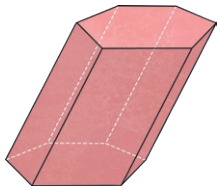
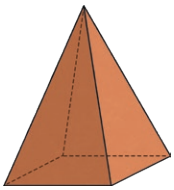
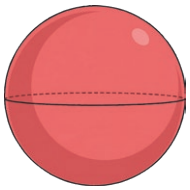
The player who finds the tennis balls is male / female.

(Circle the correct answer)

Clue 5: 3D Shapes

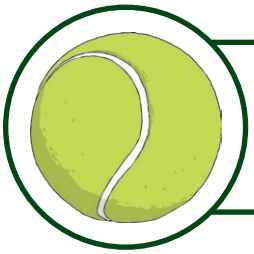
In each row, find the correct name of the 3D shape shown in the first column.

The column with the most correct answers will tell you the age of the player who finds the tennis balls.

	cube	square-based pyramid	sphere
	cuboid	hexagonal prism	pentagonal prism
	triangular prism	tetrahedron	square-based pyramid
	sphere	cylinder	cuboid
Age	19-24	25-30	31-36

Clue

The player who finds the tennis balls is aged _____.



The player who is responsible for finding the tennis balls is: _____.

The Mystery of the Missing Tennis Balls **Answers**

Clue 1

The majority of angles were less than a right angle.	**The majority of angles were greater than a right angle.**
The player doesn't come from Europe.	**The player doesn't come from Africa.**

The player who finds the tennis balls doesn't come from **Africa**.

Clue 2

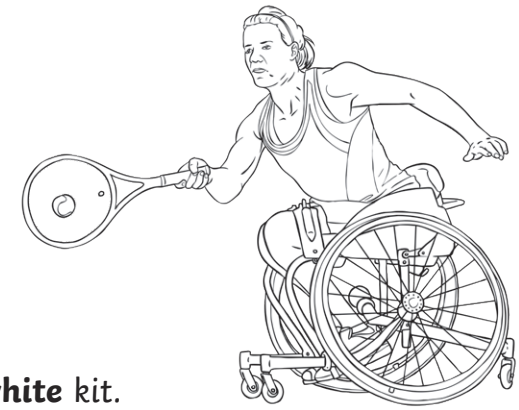
START	**1m = 100cm**	**3000g = 3kg**	**4l = 4000ml**	**2m = 200cm**
3m = 300cm	6km = 600m	2l = 200ml	2m = 2000km	**1000g = 1kg**
4m = 400mm	**1l = 1000ml**	**4m = 400cm**	**2km = 2000m**	**5cm = 50mm**
2000g = 2kg	**3m = 3000mm**	3km = 3000cm	**2l = 2000ml**	100g = 1kg
4m = 4000cm	**3l = 3000ml**	**50mm = 5cm**	4l = 400ml	**5m = 500cm**
5l = 5000ml	1km = 10cm	**4000g = 4kg**	2m = 20cm	**5000m = 5km**
The tennis player's special skills are not backhand or volley.	The tennis player's special skills are not slice or serve.	**The tennis player's special skills are not speed or slice.**	The tennis player's special skills are not volley or serve.	The tennis player's special skills are not backhand or slice.

The special skill of the tennis player who finds the tennis balls isn't a **speed or slice**.

Clue 3

The remaining fraction is:

$\frac{8}{10} - \frac{6}{10}$	**The player's kit is blue or white.**



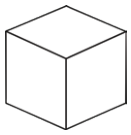
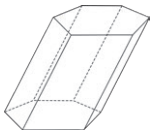
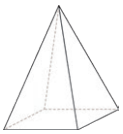
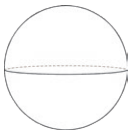
The player who finds the tennis balls has a **blue** or **white** kit.

Clue 4

	Correct ✓	Incorrect ✗
$\frac{1}{3} > \frac{1}{5}$	✓	
$\frac{7}{12} < \frac{5}{12}$		✗
$\frac{1}{4} > \frac{1}{2}$		✗
$\frac{5}{8} > \frac{3}{8}$	✓	
$\frac{4}{5} > \frac{1}{5}$	✓	
Total	**3**	2

The player who finds the tennis balls is male / (***female***).

Clue 5

	cube	square-based pyramid	sphere
	cuboid	hexagonal prism	pentagonal prism
	triangular prism	tetrahedron	square-based pyramid
	sphere	cylinder	cuboid
Age	**19-24**	25-30	31-36

The player who finds the tennis balls is aged **19-24**.

The player who is responsible for finding the tennis balls is Queenie Quarrie.