The Mystery of the Royal Wedding Speech

Royalty and dignitaries from around the globe were seated ready to listen to Prince Harry's speech at the Royal Wedding. However, when he put his hand into his pocket to get it, he found that his speech had been swapped for a dirty handkerchief!

As the investigator on this case, it is your job to find out which prankster has got Prince Harry's speech. You have taken down the names and descriptions of 25 wedding guests who were in the grounds of Windsor Castle on the day of the wedding. There are also five important clues that have been discovered.

To crack the case, you will need to solve each clue and check the information with the list of names.

Good luck!

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Name	Age	Hair Colour	Eye Colour	Favourite Snack
Prince Andrew	58	grey	grey	biscuits
Princess Anne	67	brown	blue	biscuits
Autumn Phillips	39	blonde	grey	biscuits
Princess Beatrice	29	ginger	green	crisps
Birgitte, Duchess of Gloucester	71	grey	blue	biscuits
Camilla Parker Bowles	70	white	blue	chocolate
Catherine Middleton	36	brown	green	fruit
Prince Charles	69	grey	blue	chocolate
Princess Charlotte	2	brown	blue	biscuits
Lady Cosima Windsor	7	brown	blue	chocolate
The Duke of Kent	82	grey	blue	fruit
Prince Edward	53	brown	blue	crisps
Queen Elizabeth II	91	grey	blue	crisps
Princess Eugenie	27	brown	grey	fruit
Prince George	4	blonde	brown	biscuits
James, Viscount Severn	10	brown	grey	chocolate
Lady Louise Windsor	14	blonde	grey	fruit
Mike Tindall	39	brown	grey	crisps
Peter Phillips	40	brown	blue	chocolate
Prince Phillip	96	grey	blue	fruit
Prince Richard	73	grey	blue	fruit
Sir Timothy Laurence	62	brown	brown	crisps
Prince William	35	blonde	blue	chocolate
Zara Tindall	36	blonde	blue	fruit
Xan Windsor	10	brown	blue	chocolate

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Clue 1: Buffet Kerfuffle

In the chaos of searching for the speech, plates of food have ended up on the wrong table. Give them back to the correct people by simplifying the fractions. Write each fraction in the equivalent box. The box with the most fractions in will reveal the colour of the speech swapper's hair.

$\frac{10}{16}$	$\frac{60}{120}$	$\frac{15}{20}$	$\frac{25}{40}$
$\frac{50}{125}$	$\frac{27}{36}$	$\frac{12}{21}$	$\frac{24}{60}$
$\frac{39}{78}$	$\frac{20}{35}$	$\frac{15}{24}$	$\frac{23}{46}$
$\frac{20}{32}$	$\frac{12}{30}$	$\frac{32}{56}$	$\frac{300}{400}$

Grey	Brown	Blonde	Ginger	White
$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{2}{5}$	$\frac{4}{7}$

The speech swapper has got _____ coloured hair.

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Clue 2: One's Royal Corgis

You enlist the help of the Queen's corgis to identify the gender of the speech swapper.

If there are more true statements, the corgis find evidence which reveals the speech swapper is male.

If there are more false statements, the corgis find evidence which reveals the speech swapper is female.

	True	False
$\frac{7}{9} > \frac{6}{7}$		
$\frac{5}{6} > \frac{3}{10}$		
$\frac{7}{8} < \frac{11}{12}$		
$\frac{4}{7} > \frac{5}{8}$		
$\frac{7}{10} > \frac{4}{5}$		
$\frac{3}{8} > \frac{2}{10}$		
$\frac{4}{9} < \frac{5}{12}$		
$\frac{6}{11} < \frac{1}{6}$		

The speech swapper is male/female.

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Clue 3: Examining the Evidence

You find an important clue about the speech swapper written in a secret code on a napkin.

Use the code breaker to reveal the message.

A	B	C	D	E	F	G	H	I	J	K	L	M
$\frac{1}{6}$	$\frac{7}{12}$	$\frac{8}{15}$	$\frac{1}{12}$	$\frac{7}{10}$	$\frac{5}{12}$	$\frac{11}{12}$	$\frac{1}{15}$	$\frac{5}{6}$	$\frac{2}{15}$	$\frac{4}{15}$	$\frac{12}{35}$	$\frac{7}{15}$
N	**O**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
$\frac{11}{15}$	$\frac{20}{21}$	$\frac{14}{15}$	$\frac{1}{10}$	$\frac{9}{14}$	$\frac{19}{21}$	$\frac{3}{10}$	$\frac{13}{15}$	$\frac{1}{7}$	$\frac{2}{7}$	$\frac{3}{7}$	$\frac{9}{10}$	$\frac{5}{7}$

	Answer	Letter
$\frac{1}{5} + \frac{1}{2}$		
$\frac{2}{5} + \frac{1}{2}$		
$\frac{2}{10} + \frac{3}{6}$		

	Answer	Letter
$\frac{1}{3} + \frac{1}{2}$		
$\frac{1}{3} + \frac{4}{7}$		

$\frac{1}{5} + \frac{1}{3}$		
$\frac{2}{3} + \frac{2}{7}$		
$\frac{1}{5} + \frac{1}{7}$		
$\frac{4}{6} + \frac{4}{14}$		
$\frac{1}{5} + \frac{2}{3}$		
$\frac{1}{7} + \frac{1}{2}$		

$\frac{1}{4} + \frac{1}{3}$		
$\frac{5}{25} + \frac{3}{21}$		
$\frac{4}{20} + \frac{4}{6}$		
$\frac{3}{15} + \frac{5}{10}$		

Clue 3: _____.

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Clue 4: An a-maze-ing Clue

Within the grounds of Windsor Castle is a maze, which the speech swapper passed through on the way to the banquet. Find a path of correct answers through the maze to identify if the speech swapper's age is odd or even.

	START			
$\frac{1}{2} - \frac{2}{5} = \frac{1}{10}$	$\frac{1}{2} - \frac{2}{5} = \frac{1}{10}$	$\frac{2}{3} - \frac{1}{2} = \frac{5}{6}$	$\frac{3}{7} - \frac{1}{5} = \frac{11}{35}$	
$\frac{2}{3} - \frac{1}{2} = \frac{1}{6}$	$\frac{3}{7} - \frac{1}{5} = \frac{8}{35}$	$\frac{2}{5} - \frac{1}{3} = \frac{4}{15}$	$\frac{4}{5} - \frac{2}{7} = \frac{24}{35}$	EVEN
$\frac{2}{5} - \frac{1}{3} = \frac{1}{15}$	$\frac{8}{9} - \frac{2}{5} = \frac{27}{45}$	$\frac{4}{7} - \frac{1}{3} = \frac{11}{21}$	$\frac{4}{7} - \frac{1}{3} = \frac{5}{21}$	ODD
$\frac{4}{5} - \frac{2}{7} = \frac{18}{35}$	$\frac{2}{3} - \frac{1}{5} = \frac{7}{15}$	$\frac{5}{8} - \frac{1}{3} = \frac{7}{24}$	$\frac{8}{9} - \frac{2}{5} = \frac{22}{45}$	

The speech swapper's age is _____.

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Clue 5: A Tasty Tip-Off

A pile of crumbs at the buffet tables provide the final clue to revealing the identity of the speech swapper.

If there are more true calculations, the speech swapper's favourite snack is biscuits.

If there are more false statements, the speech swapper's favourite snack is chocolate.

	True	False
$\frac{7}{9} \times \frac{6}{7} = \frac{2}{3}$		
$\frac{5}{6} \times \frac{3}{10} = \frac{1}{5}$		
$\frac{2}{3} \times \frac{5}{12} = \frac{7}{18}$		
$\frac{4}{7} \times \frac{5}{8} = \frac{5}{14}$		
$\frac{7}{10} \div 4 = \frac{7}{30}$		
$\frac{3}{8} \div 5 = \frac{3}{40}$		
$\frac{4}{9} \div 7 = \frac{4}{63}$		
$\frac{6}{11} \div 8 = \frac{3}{44}$		

The speech swapper's favourite snack is _____

The person who swapped Prince Harry's speech is _____

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