### Tiebreak Teasers/ Tennis Maths Problems

#### Lesson Objectives

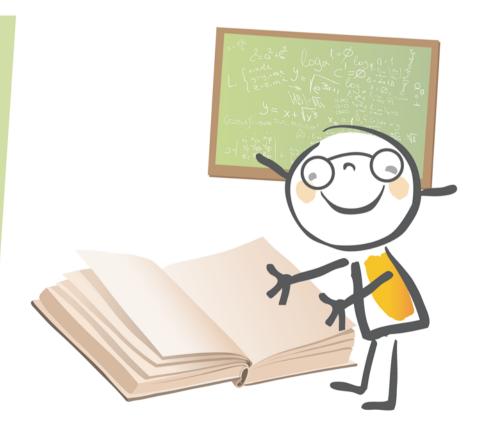
• To be able to solve one and two part word problems.

'Tiebreak Teasers' is a series of word problems where children have to use a variety of strategies to solve them. Calculators may be used.

They are written in progressive order of difficulty ranging from National Curriculum Levels 3 - 5.

#### Helpful Hints

- For some children it may be useful to work with a partner or in small groups, to solve these problems.
- Underlining or highlighting key words or information in the question can also help.
- Encourage the children to show ALL their working and to underline their final answers.





## Tiebreak Teasers/

### Tennis Maths Problems

		id I collect	Li					
Λ match	started at 2p	m and fini	obod at 4	20nm				6
Amaten	Starteu at Zp	mi and iiiis	sneu at 4.	Supin.				4
During th	ne match the	re were two	o rain rela	ys, one of 2	20 minutes	and one of		
half an h	our.							
How lon	a did the me	otab laat?						
HOW IOII	g did the ma	atti iast:						
								• •
		• • • • • • • • • • • • • • • • • • • •						
								2
Ten cour	ts are being i	used on the	e second	Monday of	the Wimble	edon Champ	ionships	3
	ts are being tes matches.	used on the	e second	Monday of	the Wimble	edon Champ	ionships	3

required altogether?



Each year 250 Ball Boys and Girls are recruited for the Wimbledon Championships from local Secondary Schools. They are grouped into teams of six.	4
A. How many teams can they create and how many children are in reserve?	
B. Each team operates for 60 minutes on court. If a match between Nadal and Federer lasts 4 hours 30 minutes, how many Ball Boys/Girls will be used?	
C. Each boy/girl is issued with four pairs of Wimbledon socks costing £1.99 a pair.  How many pairs of socks must be ordered for all the boys and girls?	
D. How much will the sock bill be?	

	E
During a rain break, a family of four have lunch. They buy:	0
4 packs of sandwiches costing £3.99 each	
4 soft drinks of £2.50 each	
<ul> <li>4 dishes of strawberries and cream costing £4.50 each</li> </ul>	
A. What would the cost of the lunch be?	
B. How much change from a £50 note?	





	Gentlemen's & Ladies' Singles	Gentlemen's & Ladies' Doubles	Mixed Doubles
Winner	£750,000	£115,000	£46,000
Runner-Up	£375,000	£57,500	£23,000
Semi-Finalist	£187,500	£28,750	£11,500
Quarter-Finalist	£93,750	£15,000	£5,250

Look at the chart showing the prize money at the Wimbledon Championships

- A. Player A was runner up in the Gentleman's Singles, a semi-finalist in the Gentleman's Doubles and winner of the Mixed Doubles. What would his total winnings be?
- B. Player B was the semi-finalist in the Mixed Doubles, quarter-finalist in the Ladies' Doubles and the winner of the Ladies' Singles. Did she win more or less than Player A?
- C. What was the difference?

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During the Championships, 6 balls are on court at any one time. The balls are changed after the first seven games, then after each nine games.

- A. The Ladies' score was 6-4, 3-6, 6-1. How many balls were used for this match?
- B. In a Men's match the score was 6-4, 2-6, 7-5, 4-6, 10-8. How many MORE balls were needed for this match?





one shilling (five pence) for their ticket.	1877, the two hundred spectators paid	
A. How much were the takings at the	e gate in 1877?	
	ntre Court. If a ticket cost the same as in gate?	1877,
C. A ticket for the Wimbledon final n how much would be taken at the g	now can cost £60. If all the seats were so gate now?	ld,
The Centre Court at Wimbledon holds The seats are divided into 12 sections		9
A.A company purchases two whole How many people can they bring		
B. If 15% of the seats are unoccupie	ed how many people are watching in the	section?
C. How many seats are there in eac	ch section?	
D.Round that number to the neares	et hundred.	
E. Round it to the nearest thousand.		
There is a long queue of people waiting	g at Gate 13.	10
A. If 225 people stand two abreast a pavement, how long, in metres, w		

# Tiebreak Teasers

### - ANSWERS -

