

Inference, Deduction and Problem Solving Booklet 2



Name:

About this Booklet

This booklet contains a collection of activities based around Brunton City Football Club. You will have to read the texts, tables and charts carefully, to try and work out the answers and solve the problems.

Good Luck!

Brunton City Football Club

**Next home match;
Brunton City
Versus
Elmetton United**

Football League Division 2

3 pm

Saturday 18th March 2017

At

Parsonage Road,

Brunton.

Tickets £20

Concessions (O.A.P. and children under 16) £12

Why not come to our reserves match

v. Drolden Town Reserves

Wednesday 22nd March 7:30 pm?

All tickets £5!

Come On City!!!

Sponsored by McDougall's Car Sales

Wheels + deals = Squeals of Joy.

Tel 01355 466377

City's Next Match Poster

Brunton City - Inference and Problem Solving 1

Questions

1.	Against whom are Brunton playing on March 18th?
2.	If the match starts at 3 pm, the first half lasts 45 minutes plus 5 minutes injury time, there is a 15 minute break at half time and the second half, including injury time lasts 50 minutes, at what time will the match finish?
3.	At the end of the season, if Brunton get promoted and move a league up, what league will they be in?
4.	If Grandad, who is 70, takes his son (45 years old) and his daughter-in-law (42) and their two children, Sam (11) and Emma (8), how much will it cost him?
5.	How many days after the match against Elmetton United is the reserve match?
6.	If Grandad takes the whole family again to the reserves match, how much less than the Elmetton match will it cost him?
7.	Who is sponsoring the match?
8.	What is the slogan of the match sponsors?

Footballer's Nicknames

Brunton City - Inference and Problem Solving 2

Footballers often have nicknames. Using your imagination and knowledge can you link these Brunton City players to their nicknames and explain why they have them?

The first one has been done for you.

Player name	Nickname	Reason
Mick White	Nosey	Snow White
Stuart Street	Homer	
Billy Parker	Big Mac	
Joe Thompson	Snowy	
Steve Simpson	Shotgun	
Andy Bell	Theresa	
Dave Cannon	Woof	
Paul May	One-way	
Hamish MacDonald	Ding-Dong	
Scott Barker	Thommo	

Results Data Sheet

Brunton City - Inference and problem solving 3

Here is some data about Brunton City's first 10 matches of the season. Use the information in the table to answer the questions.

Opponents	Home/ Away	Crowd	Score (half time) Home team score first	Result W = win D = draw L = lose
Rorston City	H	17 560	2 (1) - (0) 0	W
Filchester	A	22 010	0 (0) - (0) 0	D
Wareham Town	A	6 507	4 (1) - (1) 1	L
Shibley Athletic	H	23 409	4 (0) - 0 (0)	W
Briscombe Rovers	A	11 708	2 (1) - (0) 2	D
Masterton United	H	18 007	1 (1) - (0) 0	W
Rorston City	A	9 533	3 (2) - (1) 2	L
Elmetton	A	5 628	1 (1) - (1) 1	D
Polbury	H	15 707	5 (2) - 0 (0)	W
Bainton Villa	H	13 429	0 (0) - (0) 1	L

Results Data Sheet

Brunton City - Inference and Problem Solving 3

Questions

1.	Of their first ten matches, how many did Brunton City win?
2.	If Brunton City get three points for winning a game and one point if they draw a game, after ten matches how many points do they have?
3.	Which team did they play twice?
4.	Against which team did they score most goals?
5.	Against which team did Brunton City get their biggest home crowd?
6.	Which team scored four goals against Brunton City?
7.	Which match had the lowest crowd and where was it played?
8.	In total, how many goals did Brunton City score in these ten matches?
9.	How many of all the goals Brunton City scored were scored in the first half of their matches?
10.	What percentage of their first ten matches did Brunton City lose?

Brunton City - The Players

Brunton City - Inference and Problem Solving 4

Here are some short descriptions of Brunton City's players.

Mick White (goalkeeper) Born locally at Shibdon, Mick joined the club at the age of 13 and has made his way up through the youth team and reserves. He is now a permanent fixture in the first team. Standing at 1 m. 93cms, he is a commanding presence in the penalty area and has played over 200 games for Brunton City.

Stuart Street (left back) Stuart joined Brunton City three years ago for a fee of £300 000 from Masterton United. He has been plagued by knee injuries since he joined us so appearances have been limited (only 36). Now hopefully fully recovered he is enjoying a great season and his speed and anticipation make him a valuable member of the team.

Billy Parker (central defender and team captain) A tough uncompromising defender who leads by example. His fiery temper and aggressive style of play have led to several sendings off and numerous bookings. Popular with team mates and fans alike.

Joe Thompson (central defender) Joe joined us on a free transfer from Rorston City in April 2016. He has developed into a versatile and dependable member of the squad and has made nearly 100 appearance for Brunton City. His ginger hair makes him easily identifiable on the pitch.

Steve Simpson (right back) Steve is the veteran of the team, he joined Brunton City way back in 2007 from Filchester and has since made over 400 appearances for the team. Dependable, calm in any circumstances and an excellent penalty taker.

Andy Bell (midfield) Andy is the youngest player in the team having been born on Christmas Day 1999. Since first appearing in the first team last year, his potential is really beginning to show. He was chosen to play for the England Under 21 team for a tournament in Sweden last year. A star in the making.

Dave Cannon (midfield) Dave was bought from Briscombe Rovers in 2015. He is a hard-working midfielder with a ferocious shot. Brunton City turned down an offer of £380 000 from local rivals Shibdon last year (despite this being exactly twice what Brunton paid for him in 2015).

Paul May (left wing) A local lad, he is City's exciting, speedy and tricky left winger. Despite his small stature (1 m 63 cms), he is a tenacious presence on the left wing and is a terrific crosser of the ball.

Hamish MacDonald (striker) As you may guess from his name, Hamish joined us from the Scottish Premiership club Kilmarnock. He is a bustling, no-nonsense striker who has already scored 13 goals this season.

Player Biographies

Brunton City - Inference and Problem Solving 4

Questions

1.	Which two players were born locally?
2.	Why has Stuart Street only made thirty six appearances?
3.	In five years time, which player is unlikely still to be playing for Brunton City?
4.	If Steve Simpson has played for Brunton City 400 times, on average how many times has he played each season?
5.	When Dave Cannon joined the club, how much did he cost?
6.	How old is Andy Bell?
7.	Who takes the team's penalties?
8.	Which player cost the most money?
9.	Who might have found a Swedish phrase book useful last year?
10.	What is the difference in height between the tallest player and the shortest player?

Sponsor's Message

Brunton City - Inference and Problem Solving 5

As a local business man, employing over forty employees I am proud to be able to sponsor Brunton City. I feel that playing a lead role in developing a successful local football team with excellent community links is a responsibility of a caring local employer.

Ian MacDean, my father, started the car retailing business in 1957. Initially he ran the business from a small garage to the north of the town centre. Through hard work and a growing reputation for being a fair and honest businessman, he built the business up from humble beginnings. In 1970, I joined him in the business and in 1976 we moved to our much larger premises just off the Brunton by-pass to the east of the town. Larger premises led to a great increase in trade and we have since opened four other premises in the area.

Our partnership with Brunton City means that we have really strong links with the town and are proud that the team have our name on their shirts.

I have always been a keen fan, through thick and thin, and I am particularly proud of our current team and hope and believe that we will be able to gain promotion to the next league.

Come and see the great deals we have on second hand, quality cars, I am sure we can find a deal suitable for you and your pocket.

Andrew MacDean, Managing Director, MacDean's Car Sales.

Sponsor's Message

Brunton City - Inference and Problem Solving 4

Questions

1.	If MacDeans double their workforce how many people will they now employ?
2.	What two factors led to an increase in business?
3.	How many years ago did Ian MacDean first start his business?
4.	Where are the larger premises situated?
5.	In what direction would you have to travel from the old premises to the new ones?
6.	After how many years did Andrew join the business?
7.	What do you think "through thick and thin" might mean?
8.	What does Andrew hope might happen at the end of the season?
9.	If you watched Brunton City, how would you know MacDeans sponsored them?
10.	What is Andrew Mac Dean's job title?

Team Colours

Brunton City - Inference and Problem Solving 6

Here is a chart that shows the different colours of the teams in Brunton City's league.

<u>Team</u>	<u>Shirts</u>	<u>Shorts</u>	<u>Socks</u>
Rorston City	Red	Red	White
Filchester	Blue and white horizontal stripes	White	Blue
Wareham Town	Blue	White	Blue and white horizontal stripes
Shibley Athletic	Sky blue and white vertical stripes	Black	White
Briscombe Rovers	Yellow with green sleeves	Yellow	Green
Masterton United	Black and white vertical stripes	Black	White
Elmetton	White	White	Black
Polbury	Amber and black vertical stripes	Black	Amber
Bainton Villa	Claret shirt with blue sleeves	White	White
Brunton City	Red and black horizontal stripes	Black	Red and black horizontal stripes

Team Colours

Brunton City - Inference and Problem Solving 6

Questions

1.	Which teams have vertically striped shirts?
2.	Which three teams have a shirt of one plain colour?
3.	Name a team whose kit is made up of three colours?
4.	Polbury have the colour 'Amber' in their shirts. What colour is amber? Where might you see this colour as you drive around especially at traffic lights?
5.	Which teams have shirts with a horizontal stripe?
6.	Which team's colours might give them a nickname of 'The Canaries'? Why?
7.	The main colour of Bainton Villa's shirts is claret. Claret is a kind of dark wine. What colour do you think claret is?
8.	The two teams that are called City share what colour on their shirts?
9.	Which team might have the nickname of 'The Zebras'. Why?
10.	If you arranged the list of these teams alphabetically, what colour socks would the first team on the list have?

Parsonage Road Tea Bar

Brunton City - Inference and Problem solving 7

At half time at Brunton City matches, spectators might like a drink and something to eat. Here is a list of what's on offer.

HOT FOOD

Hot Dog £2.00

 with onions £2.50

Burger £2.00

 with onions £2.50

Pasty £2.00

Meat Pie £2.00

Chips £1.50

Mushy Peas £1.00

Baked Beans £1.00

COLD FOOD

Cheese Sandwich £2.00

Ham Sandwich £2.00

Tuna Mayonnaise
Sandwich £2.40

Egg Mayonnaise
Sandwich £2.40

HOT DRINKS

Tea £1.50

Coffee £1.50

Bovril £2.00

Hot Chocolate £2.00

COLD DRINKS

Fresh Orange £2.25

Coke £1.50

Diet Coke £1.50

Lemonade £1.50

Irn Bru £1.50

Dr Pepper £1.50

Energy Drink £2.00

Parsonage Road Tea Bar

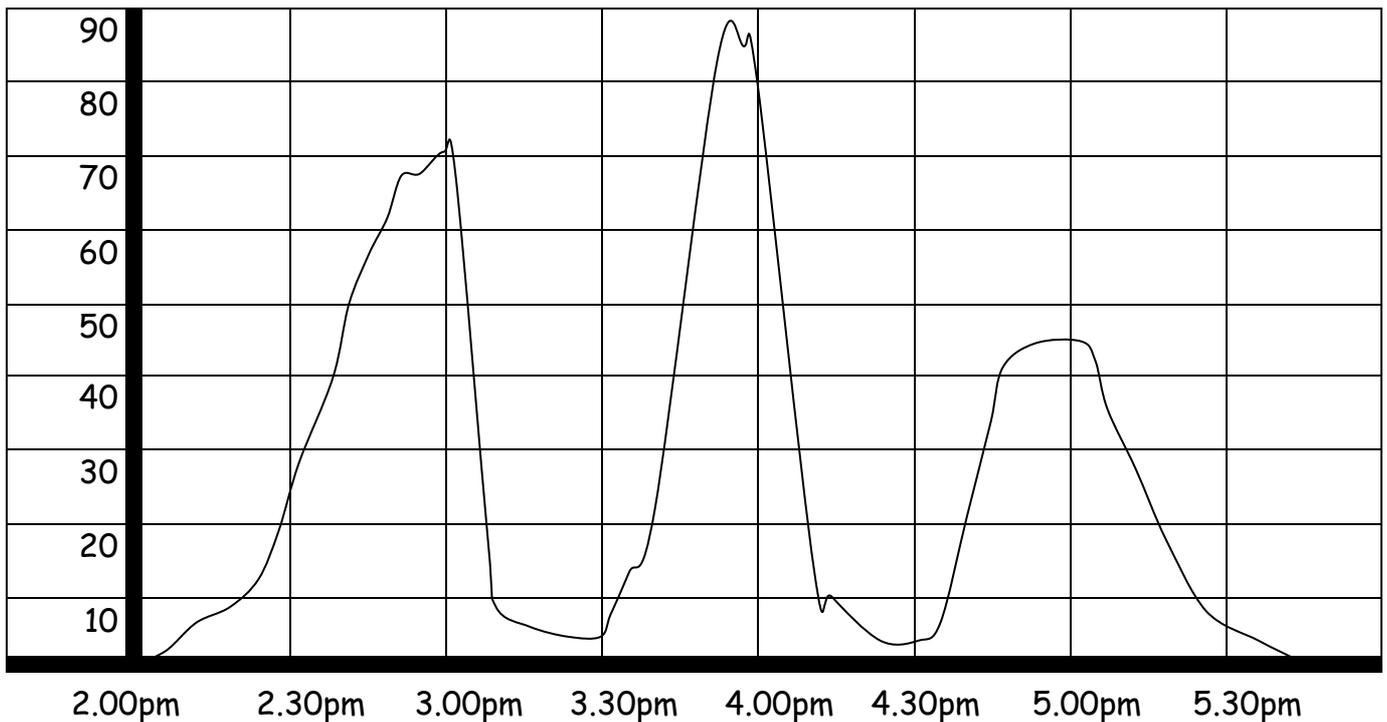
Brunton City - Inference and Problem Solving 7, Questions

1.	What are the most expensive items on the Tea Bar menu?
2.	What are the cheapest items on the Tea Bar menu?
3.	If you were a vegetarian, what cold sandwiches could you eat?
4.	If you wanted a non-fizzy, cold drink what could you choose?
5.	If you were a vegetarian what hot food could you choose?
6.	If you chose meat pie and chips, how much change would you get from £5?
7.	It is traditional at football matches to drink Bovril, do you know what it is and why might it not be suitable for a vegetarian?
8.	If you chose a hot dog, a burger with onions, a portion of chips, a tea and a can of Irn Bru, how much would it cost?
9.	How many cans of Dr Pepper could you buy for £10?
10.	What do you think the healthiest choice of food and a drink would be?

Parsonage Road Tea Bar Graph Data
Brunton City - Inference and Problem Solving 8

Questions

The tea bar at Parsonage Road, home to Brunton City, is open when matches are played. Here is a graph that shows the number of customers who used the tea bar for a match against Rorston City, kick off 3 pm on a Saturday. Can you answer the questions using the data from the graph?



1.	How many customers were in the Tea Bar at 2.30 pm?
2.	Why do you think there is a rush of people just before 4 pm?
3.	How many customers were in the Tea Bar at 5 pm?
4.	At about what time is the Tea Bar at its busiest? How many customers are there then?
5.	Why do you think the Tea Bar is quiet at 3.30?