

and 440 AD (Brewer's latest edition). After checking, I accepted these answers as well. You can call me a smart arse if you like!

- 8 Who will be the army led to Ragnarok? [50]
Ragnarok is the final battle of all time, when the good gods will lead an army consisting of the souls of valiant warriors taken from the battlefield where they died by the Valkyries. They are collectively known as the **Einheriar**. This is a well known legend in Norse mythology.
- 9 Writer Michael Russell produced a book on fishing under which name? [5]
British Telecom eat your heart out. The pseudonym in question is **JR Hartley**, with a book called *Fly Fishing*.
- 10 Which opera has an opera-singer as its eponymous heroine? [18]
Tosca.
- 11 Two candles of the same length are lit at the same time. The first will last for six [4]
hours, the second for four. After how many hours is one twice the length of the other?
Fairly simple, this one. If both candles are 24" long, then after 1 hour, the first is 20", the second 18"; after 2 hours, the first is 16", the second 12"; after 3 hours, the first is 12", the second 6". The answer is thus **3 hours**.
- 12 Where did Sir Walter Raleigh take up residence in 1600? [43]
Elizabeth Castle in St Helier, Jersey. This is the castle that is cut off by the tide twice every day. It made a very good fortress, but was eventually abandoned because the governors of the Island found it too inconvenient to be cut off from the town twice a day. Answers of Jersey were not allowed.
- 13 Born Albert Henry DeSalvo, he was known as the Measuring Man and the Green [22]
Man. Under what name did he become infamous?
The **Boston Strangler**, a nasty piece of work. He used to strangle women, tying the ligature in a neat bow under the chin. He had previously been convicted of assaulting women by conning them into allowing him to measure them with a tape measure for a bogus model agency. Before that, he used to wear green overalls every time he indecently assaulted women. An extremely unpleasant fellow, who got exactly what he deserved when he was stabbed through the heart in prison while on a life sentence - for the Green man crimes, NOT the murders.
- 14 Consider the following sequence: 0, 100, 160, 200, 160, 100. What happens on a [45]
Sunday and why?
Yes, this was the Logica question. This year it came from a book that everybody should have a copy of - the Logica Staff Handbook. These are the inconvenient hours allowances, for various starting times during the day. On Sundays, **160%** is the allowance.
- 15 Who is the person appointed to carry the censer at religious ceremonies? [20]
The **thurifer**.
- 16 Which high flyer beat Major Timothy Mace into second place? [18]
Another topical question. **Helen Sharman** and Tim Mace were the two candidates for launching on Soyuz to the Russian space station. Helen was the one actually chosen for the mission (about 15,000 ahead of Greg Roach!).
- 17 Which angel is next in command to Gabriel? [58]
Uzziel, according to my Brewer's. It means "Strength of God". There was a lot of support for Uriel, since NE1ton gives this name. I have checked this carefully, but stand by my answer. Uriel is

referenced in Brewer's but he is not the same as Uzziel. Uriel is one of the 7 major archangels, but is in some sense at the same level as Gabriel. Under Gabriel was Uzziel.

In Paradise Lost, Milton says that Uriel is the Regent of the Orb of the Sun (III.690). However, of Uzziel he says (IV.78 I):

When Gabriel to his next in power thus spake:
"Uzziel, half these draw off, and coast the south
With strictest watch; these other wheel the north;
Our circuit meets full west."

It's a hard afterlife.

- 18 To which science is Buys-Ballot's Law important? [10]

This law, formulated by CHD Buys Ballot in 1857, describes geostrophic flow. If an observer in the northern hemisphere stands with his back to the wind, the atmospheric pressure will be lower to his left than to his right. This is reversed in the southern hemisphere. This implies that winds go anticlockwise around a low pressure cyclone, and clockwise around an anticyclone. This is very important to the science of **meteorology**.

- 19 The centre of gravity of an empty can of beer is in the same place as that of the same [25]
can full of beer. When beer is poured out, however, the C of G lowers, then rises again. If the can is 8 inches high, weighs 1.5 ounces, and the beer 12 ounces, determine the level of beer at which the C of G is at its lowest point.

This was the one difficult bit of maths in the quiz. Imagine that the beer is frozen so that the can of beer can be placed horizontally on a knife edge pivot and balanced with the top of the can to the left. If it balances with the pivot under the beer-filled part, adding more beer would make the can tip to the left. If it balances under the empty part, adding more beer would make it tip to the right. But if it balances with the pivot under the beer's surface, any change to the amount of beer will make the can tip to the left. Thus the CoG is at its lowest when it coincides with the beer's surface.

With the can balanced in this condition, you can approximate that the mass per unit length on the left hand side is proportional to the weight of an empty can, and the mass per unit length on the right is proportional to that of a full can. The moment of force on the left is therefore proportional to the weight of an empty can multiplied by the square of the length of the empty left side; similarly for the right. Since the can is balanced, these moments are equal.

Algebraically, if a is the length of the left hand side at that time, b is the length of the right hand side and E and F the cans weight when empty and full respectively,

$$a^2E = b^2F$$

In the question, the can weighs nine times as much full as empty. So $a^2 = 9b^2$, which means $a = 3b$. Since $a + b = 8$, the answer is **2 inches**.

- 20 Sir Arthur Conan Doyle published a series of articles in the Telegraph in 1907 in an [32]
attempt to clear whom?

George **Edalji**, who was accused of mutilating horses (indeed, Peter Shaffer based his famous play, *Equus*, on Edalji's story). Early in 1903, there was a series of horrifying killings and maimings of horses and cattle in fields around Great Wyrley, where Edalji's father was the vicar. Anonymous letters sent to the police named George as the criminal.

The police convinced themselves (either through bungling or malpractice) that George wrote the letters himself. He was charged, found guilty and sentenced to 7 years' imprisonment. While he was in gaol, the crimes continued. After three years, he was suddenly released without reason; his name was not cleared.

Arthur Conan Doyle heard of the case, and set about clearing Edalji. He published several articles in the Telegraph, starting on the 12 January 1907. These articles left the police case in tatters. A review commission eventually decided that Edalji was innocent of the horse maiming, but that there was no proof that he had not written the letters. They therefore concluded that he had brought the trouble on himself, and gave him no compensation.

Conan Doyle was unable, because of the libel laws, to name who he thought was the guilty man. He is now dead, and so can be identified as Royden Sharp, an apprentice butcher in Great Wyrley.

A book on the topic has recently been published - I saw it in Dillon's just before Christmas.

Incidentally, several people gave Oscar Slater as the answer. This is not correct, although Conan Doyle did some further work years later, trying to clear him of the murder of Miss Marion Gilchrist. In fact he published a book called *The Case of Oscar Slater*. Eventually, Doyle was proved right in this case, and Slater was given £6,000 in compensation for 18 years in gaol. Incidentally, Slater refused to give Doyle any of this money; this moved Doyle to write: "If you are indeed quite responsible for your actions, then you are quite the most ungrateful as well as the most foolish person whom I have ever known."

- 21 Which brewery brews Xmas Ale? [31]
Linfitt brewery in the Midlands, according to my CAMRA guide. Any answers relating to Christmas Ale were not allowed. My favourite wrong answer was Lapland brewery.
- 22 Where can beryllium, gold, lithium and europium be found flowing through the [7]
British countryside?
Yes, a nasty horrible trick question - take the chemical symbols for these elements, and you get - **Beaulieu**. Elementary, my dear Watson.
- 23 Where would you find Rossby waves? [22]
A Rossby wave is a smooth, wave shaped undulation in the airflow of the middle to upper troposphere, with a wavelength of some 2000km. It is created by a combination of the rotation of the Earth and the Coriolis force, balanced by relative vorticity. It is thus in the **atmosphere**. Air was also allowed.
- 24 Who was the Lord of Uraniburg with the golden nose? [21]
Tycho **Brahe**, the famous Danish astronomer and scientist. He met a very unfortunate end. At a dinner party, he found that his manners did not allow him to excuse himself to go to the toilet. When he finally left, his muscles had constricted - he died in agony a few days later.
- 25 What drink is made from 1 sugar cube, 2 drops Angostura Bitters, ice cubes, whisky [27]
and a slice of lemon?
I like mixing cocktails - this is the classic recipe for an **Old Fashioned**.
- 26 What is next in this series - Sergeant, Nurse, Teacher, Constable? [26]
These are the *Carry On* films, in the order of their making. *Carry On **Regardless*** was the next in the series.
- 27 Who was nobody? [21]
The famous book *The Diary of a Nobody*, by George and Weedon Grossmith. The hero was **Charles Pooter**. Some support for Odysseus, but this was not the answer I was looking for. Alton B Parker was an interesting suggestion from quiz answers a couple of years ago.
- 28 Who played his last game against Nigeria, scoring 77 not out? [43]

Our cricket mad Prime Minister, **John Major**. I found this in a Times cutting. He played for a scratch team of Northern Nigeria against the Nigerian XI. A couple of days later he had a car crash, crushed his knees and has not played seriously since, apart from a few knockabouts.

Interestingly, the pitch was on an airfield and a plane stopped play at one point!

- 29 The Netherlands signed a peace treaty in April 1986, ending a 335 year old war with whom? [43]

The **Isles of Scilly**. There was a war that started in 1651, and a treaty that ended it in 1656, but unfortunately the islands were missed off in the text of the treaty.

- 30 Frank: I have three children. [13]

Steve: Oh yes, how old are they?

Frank: Well, let's make you think a bit. The product of their ages is 36.

Steve: Well, I can't work it out from that!

Frank: OK, the sum of their ages equals the number of your house.

Steve: Hmmmm. No, sorry, I still can't work it out from that.

Frank: OK, well my eldest boy has a wart on his left thumb.

Steve: Ahhh, well his age is..... What?

The first thing to do is to factor 36 in all possible ways, as the first statement requires. These are:

1 * 3 * 12 which sum to 16.

1 * 4 * 9 which sum to 14.

1 * 6 * 6 which sum to 13.

1 * 2 * 18 which sum to 21.

2 * 2 * 9 which sum to 13.

2 * 3 * 6 which sum to 11.

3 * 3 * 4 which sum to 10.

Now then, the second statement is not enough to uniquely solve the problem, so that means that all unique answers should be discarded. This leaves only (2 * 2 * 9) and (1 * 6 * 6). But the third statement says that Frank has an *eldest* son, so the first of these must be true. Therefore, Frank's eldest boy is **9 years old**.

- 31 Who rode through the night to warn the people of Massachusetts of the coming of British Troops? [41]

American history gives this deed almost as a legend - **Paul Revere**.

- 32 In which large open area did Michael Henchard die wretchedly in a hut? [20]

Michael Henchard was the Mayor of Casterbridge, from the novel by Thomas Hardy. On the last pages of the book, he is tracked to a cottage on **Egdon Heath**.

- 33 Who was served the first potato crisp? [54]

This was invented by a man called George Crum, who was the chef at the Moon Lake House hotel, Saratoga Springs, NY. He gingerly offered it to the American railroad tycoon, **Cornelius Vanderbilt**, who had asked for "thinner than normal French fries". He noisily munched it.

- 34 Where is the only bronze statue of Sherlock Holmes in Britain? [39]

I got this from a newspaper cutting in the Times. Gerald Laing sculpted it in his garden at Kinkell Castle, near Inverness, and then moved it to Picardy Place, **Edinburgh**, Doyle's birthplace.

- 35 About whose work did Rossini say "Wonderful moments, but awful quarter hours"? [16]

A lovely quotation, which was originally said in French. It is obvious if you have sat through the Ring cycle of operas. **Wagner** writes some wonderful bits, but he doesn't half go on a bit.

- 36 What is Hell when In Camera? [43]

Difficult, but the clue is that *In Camera* is a title. This is a play by Jean-Paul Sartre, (*Huis Clos* in French) in which he describes his version of hell. The most famous quote from the play is "Hell is **other people**".

37 What is the longest word in Shakespeare? [37]

In *Love's Labours Lost*, Act 5 Scene 2, the clown Costard is talking to the page of the Spanish braggart, Don Adriano de Armado. He says "I marvel thy master hath not eaten thee for a word, for thou art not so long by the head as **honorificabilitudinitatibus**. Thou art easier swallowed than a flapdragon." This was NOT a trick question, as the several people who gave the answer "Shakes" thought. Unlucky!

38 What combines the days of Anne Boleyn, Charlton Heston's days in Peking, David Niven's days of circumventing, 4 times more Dalmatians than Disney's, Truffaut's Fahrenheit reading and Bo's score plus one? [81]

These are all films with a number in the title:

Anne of a thousand days	1000
55 days in Peking	55
Around the world in 80 days	80
101 Dalmatians	404
Fahrenheit 451	451
10	10

Summing this and adding 1 gives you **2001, A Space Odyssey**.

39 Counting Y as a vowel, give a 9 letter word with only one vowel. [21]

The word I am thinking of is **strengths**. Aardvarks does *not* count.

40 Who invented the trampoline? [18]

George **Nissen**. He did not invent the hut, nor is he related to the man who did invent the hut.

41 In which part of Britain does Southern Vectis operate? [14]

Southern Vectis is the **Isle of Wight** bus company. I used to use it every day going to school when I was a boy.

42 Who is Clotho and Lachesis' companion? [9]

These are the three mythological Fates. **Atropos** is the other aspect. Clotho is the spinner of the threads of life, Lachesis measures them, and Atropos cuts them off at the end (ie you are dead, do not pass Go, do not collect £200). Together they weave the tapestry of life.

43 What was used for fuel in the first Egyptian trains? [48]

I found this question in *The New Scientist*. According to the article *Life, the Universe and (Almost) Everything*, the first fuel used was **Mummies**. The supply was not limitless, however, and they soon switched to imported coal.

44 What is the curious habit of cannibals called when they will not eat the flesh of their own kin? [35]

Exophagy, although I accepted exocannibalism from the OED as well.

45 What is Jeeve's first name? [24]

Reginald. The best answer I received was "What Ho!"

46 A hole 6 cm long is drilled through the middle of a sphere. What is the volume of material remaining? [20]

This was quite a difficult question, but there are two ways of approaching it. The first, and more difficult, is to work out all the formulae from scratch. This is quite drawn out. If r is the radius of the sphere.

The volume of the sphere is $(4/3)\pi r^3$.

The volume of the cylinder removed is $6\pi(r^2 - 9)$.

The volume of each of the end caps is $(\pi/3)(r - 3)^2(2r + 3)$.

Working this lot out, the r terms cancel each other out, leaving 36π as the answer.

The easy way is to reason as follows. The question would not be asked if it did not have a unique answer, for all radii. Therefore, if I take it for the case where the sphere has radius 3 cm, the hole will be 0 cm in diameter. Therefore, the answer is the volume of the sphere with radius 3 cm, 36π . 113 cm^3 was also accepted.

- 47 What connects Morocco, Rio and Singapore? [10]
The famous **Road** series of films starring Bob Hope and Bing Crosby.
- 48 What stringed instrument produces a musical sound when a current of air is passed over the strings? [15]
An **Eolian harp**. The alternative spelling of Aeolian was also accepted.
- 49 If JOHN = 5, GORDON = 4, ALAN = 3, who equals 2? [12]
This stumped a few of you, but the answer is ridiculously easy. The series is even being repeated on Friday nights at 6 pm on BBC2. These are, of course, the names of the Tracey brothers, who look after Thunderbirds 5, 4 and 3 respectively. Thunderbird 2 is piloted by **Virgil**.
- 50 In what game are the goals known as 'Good Calx' and 'Bad Calx'? [20]
The Eton Wall Game. Eton football was also accepted, but not football.
- 51 Who is Jane Porter's boyfriend? [37]
"Me **Tarzan**, you Jane". She was the daughter of Professor Archimedes Q Porter of Baltimore, USA, in the books by Edgar Rice Burroughs.
- 52 What was Nicholas Breakspears' other name? [10]
Adrian IV, the only English pope.
- 53 Who is the only sitting councillor of the Monster Raving Loony Party? [48]
Not as straightforward as it seems, since there are several splinter groups of the party. My original answer was Stuart Hughes, in Sidmouth, representing the Raving Loony Giant Green Party. However, the real answer is Alan **Hope**, who sits on Ashburton Town Council. However, it was my cock up and so I allowed both answers. My apologies for the spelling mistake, it should of course be councillor.
- 54 My Great Aunt Agatha was born on June 5, 1895. On what day of the week? [13]
Wednesday. 1900 is not a leap year.
- 55 The OS Landranger series of maps all have a photograph from the area they cover. On which number map is the photograph a mirror image of reality? [54]
Tough, this one. I found it out while touring the far north of Scotland. The locals in the pub agreed, and when I got to the place the photo was taken, it was obviously reversed. The picture is of the Kyle of Tongue, on map number **10** (Strathnaver). You can check it out from the map itself.
- 56 Michel Darbellay achieved fame, on his own, in 1963. Where? [39]

He was the first man to solo climb the north face of the **Eiger**.

57 By what name was William Joyce more commonly known? [31]

Lord Haw Haw, the infamous radio presenter in WWII. He broadcast from Radio Hamburg Goebbelasian propaganda of falsehood, abuse and threats against Britain. Each broadcast was heralded by the characteristic 'Chairinanny Calling', in the pretentious voice which earned him his nickname. He was executed for treason following the end of the war.

58 In what are the terms Piste, Roulette, Tirage and Carreau used? [48]

Not skiing, ballet, bookbinding or gambling, but the French game of **Boules**, also known as Petanque. I put this question in because I entered the Evening Standard Boules competition in August. My magnificent attempt failed in the first round.

Piste is the term for the terrain, pitch or playing area. Roulette is a way of pointing (ie laying up close to the jack), only possible on a smooth surface, in which the boules are rolled nearly all the way from the throwing circle to the jack. Tirage is Shooting, or trying to knock one boule out of the way with another. Carreau is when a shooting boule scores a perfect direct hit on the target boule, and, in doing so, not only knocks it away, but takes its exact position.

59 Who is the odd one out - Frank MacLowery, Tom MacLowery, Billy Clanton and Ike Clanton? [27]

Ike Clanton was the only member of the Clanton gang left alive after the gunfight at the OK Corral. Wyatt Earp, Doc Holliday, et al, killed all the others. This one of the questions requiring a first name answer, fairly obviously, I thought. A bit too easy if you had already solved the acrostic.

60 Which is the only film in which every member of the cast was nominated for an Oscar? [29]

The one that I am thinking of is **Sleuth**, starring Michael Caine and Laurence Olivier, as the only two members of the cast. However, *Who's Afraid of Virginia Woolf* also qualifies and so I again had to tuck my tail between my legs and accept both answers. Rats!

61 Who invented green eggs and ham? [14]

This was one of the first books that I ever read, at Primary school. Sadly, the author, **Dr Seuss**, an American (real name Theodore Seuss Geisel) died this year. He was the author of many famous children's books, such as *The Cat in the Hat*.

62 Who was turned down for the lead in "Queen Christina" after failing a screen test with Greta Garbo? [26]

This happened in 1933. A very young Laurence **Olivier** was chosen by Garbo as her leading man. He was flown over to Hollywood from London especially to screen test with her. However, she was totally unresponsive in the test, and so he looked awful. The directors then approached John Gilbert (Garbo's ex-lover), she fell for him again and the test became electric. Olivier admitted defeat, saying that Gilbert could conquer her, but he (Olivier) couldn't.

63 Charlie Parker sometimes played a saxophone made of an unusual material. What was it? [38]

Plastic. Seems unusual, but there it is. Ornette Coleman used to play one all the time, and Bird took up the habit occasionally. Perspex was also allowed.

64 Which World War II aircraft was made largely of balsa wood? [13]

Some say that this was the most beautiful aircraft made, both to fly and to look at. It is, of course, the **Mosquito**. I have been told that the much rarer Hornet aircraft also was made of a balsa / ply sandwich, but nobody found this answer.

65 In which country is television not broadcast on a Thursday? [21]

Iceland, according to Halliwell's TV Companion. The service is run by the state broadcasting company, using mainly American imports. No doubt they feel they need a rest after non stop American pap. Incidentally, a friend of mine went there for work in the summer, and he tells me that they only do this in winter now. Oh well...

- 66 If my three were a four I'm only three digits [15]
And my one were a three Just three in a row
What I am would be nine less So what in the world must I be?
Than half what I'd be. Do you know?

Quite simply **183**.

- 67 Great, Swell, Choir, Solo. What is the next in the sequence? [19]

Echo. These are the names of the manuals on a church organ, in the order of adding them.

- 68 What was the first name of the commander in chief of the allied forces in the Gulf?. [45]

His full name is **H** Norman Schwarzkopf - the H is on its own. However, one version in the Evening Standard claimed that it was Herman, and so this was accepted as well. His father's name was Herbert, which nobody liked, but to keep the tradition going, the H was given to his son.

- 69 What do I get if I take 2 baby grands, subtract 5 hogs, add a pony in white, take away [52]
4 pieces and 2 monkeys, add 4 ponies and 2 horses, and finally subtract Jack's alive?

A **ton**, or £100. These are all slang phrases for money. The meanings are as follows, according to my Dictionary of the Underworld:

Baby Grand	£500
Hog	1 shilling
Pony in White	25 shillings
Piece	30 shillings
Monkey	£500
Pony	£25
Horse	£5
Jack's Alive	£5

- 70 It has happened at least forty times in the last 4000 years, with the last time being [19]
less than 40 years ago. However, it will not happen again for at least 4000 years. When?

6009 - the year, turned upside down, will read the same. 1961 was the last time. This is, apparently, when Nick Rule's project will be delivered.

- 71 What is the world's second highest peak? [38]

Surprisingly, **Everest** is the answer - it has two peaks. The South Summit is 28,707 feet high (8,750 metres). This is higher than K2, the second highest mountain. This peak was first scaled on 26 May 1953, 3 days before the main peak of Everest was climbed by Hilary and Tenzing.

- 72 What word has 6 letter a's as its only vowels? [24]

The one that I was thinking of is **taramasalata**. My favourite wrong answer was Aaaaaargh! Abracadabraardvark is definitely wrong!

- 73 What was Rob Roy's war cry? [55]

Ard Choile. High Wood, when translated from the Gaelic. Several amusing wrong answers, including "Kill the B*****ds", "Och Aye the Noo" and "Awae the lads".

- 74 What is the next in this series: CAE, HDS-P, RBT, WMB, RPA, YSOBEL, TROYTE, [38]
WN

NIMROD. These are the Enigma Variations by Elgar. The rest of the sequence is as follows: DORABELLA, GRS, BGN, *** and EDU. They all represent people associated with Elgar, or moods, in the case of Nimrod. They are not the names of Robert Maxwell's yachts.

- 75 What was the longest Formula One motor race? [38]
More difficult. However, in the 1950's the **Indianapolis 500** was included in the Formula One season. At 500 miles, it is easily the longest race held. Note that Formula One racing only started in 1950.
- 76 What is "the right one"? [6]
The famous **Martini** of the advert. A ridiculously easy question.
- 77 To what does Angus Prune always listen? [25]
In a famous radio show of the late 1960's called " **I'm sorry I'll read that again**", the title song was called the Angus Prune Tune. The lyrics were:

My name is Angus Prune
And I always listen to
I'm sorry I'll read that again.
My name is Angus Prune
And I never miss
I'm sorry I'll read that again.

The show starred Tim-Brooke Taylor, Graeme Garden, Bill Oddy, Jo Kendall David Hatch and John Cleese. Good Fun.
- 78 Who was the solitary monk who shook the world? [31]
Remembering schoolboy history, **Martin Luther**, in the 16th century. The Diet of Worms and all that.
- 79 Which bird uses a crocodile as a dinner plate? [29]
The **Egyptian Plover**, a plucky little character. It sits on the back and eats ticks and other small insects and parasites - that is why it is tolerated. Pluvianus Aegyptius was also accepted, as was Black Backed Courser, or Crocodile Bird. They are all synonyms for the same bird.
- 80 What is the world record score for placing seven tiles in a game of scrabble? [26]
An astonishing 1962, by Jeff Grant of New Zealand. This is theoretical, of course, but the game could easily be played. The word is SESQUIOXIDIZING. The words are from the recognised Chambers dictionary. The theoretical maximum for non-words is an astonishing 3,119. In actual competitive play, the record is 392, for CAZIQUES (native chiefs of West Indian aborigines). All of these were accepted, as I had worded the question loosely.
- 81 Which book celebrated the events of 16th June 1904 in Dublin? [12]
The day is now called Bloomsday, after one of the central characters of the book, Leopold Bloom. The book itself is **Ulysses**, by James Joyce.
- 82 What is Robin Hood's Larder? [30]
This is a famous old **oak tree** in Sherwood forest.
- 83 Where are the words "ut Rosa phlos florum, sic ista domus est domorum" written? [43]
In the chapter house at **York Minster**. Answers of York were taken as a guess and not accepted - sorry!
- 84 A number of cannon balls is stacked in a square pyramid. If they can be spread out into a perfect square, how many balls are there? [11]

Quite simply, **4900**.

85 Which is the most frequently pictured castle? [52]

A difficult question this. On the front of each packet of Player's cigarettes is a picture of **Nottingham** castle - there have been countless millions of these sold throughout the world.

86 What did Joseph Conrad learn when he was 19? [18]

He was borne in Poland, and moved to Marseille in his late teens. Here he learnt to speak **English** for the first time.

87 Who was the first mayor of Terminus? [29]

Terminus was the home planet of the First Foundation, from the Foundation series of science fiction books by Isaac Asimov. **Salvor Hardin** was the first mayor, not Clint Eastwood.

88 In which state of the USA was "Galloping Gertie"? [39]

This is the famous Tacoma Narrows bridge, that collapsed in high winds which caused it to resonate. It is in **Washington** state.

The unnumbered question "Who killed Laura Palmer?".

I put this in at the end of the story, because at the time of setting the quiz, I did not know the answer. I had wanted to put it in all year, but I just could not find it out, since I had not watched *Twin Peaks*. So in the end I put it in to get you lot to tell me it.

I now know that it was her father, **Leland Palmer**, who killed her. This question had nothing to do with the hunt.

THE LINKING SENTENCE

The usual acrostic was too easy, so I reversed it ("This could turn out to be helpful" - from the introduction). This was a thing said (in one form or other) by Sherlock Holmes:

"When you eliminate the impossible, whatever remains, however improbable, must be the truth" Sherlock Holmes.

This was not of enormous help, but did tell you to ignore the red herrings.

I did like John Stewart's solution:

"Look under the desk of John Stewart in the Aberdeen office"

THE CODES

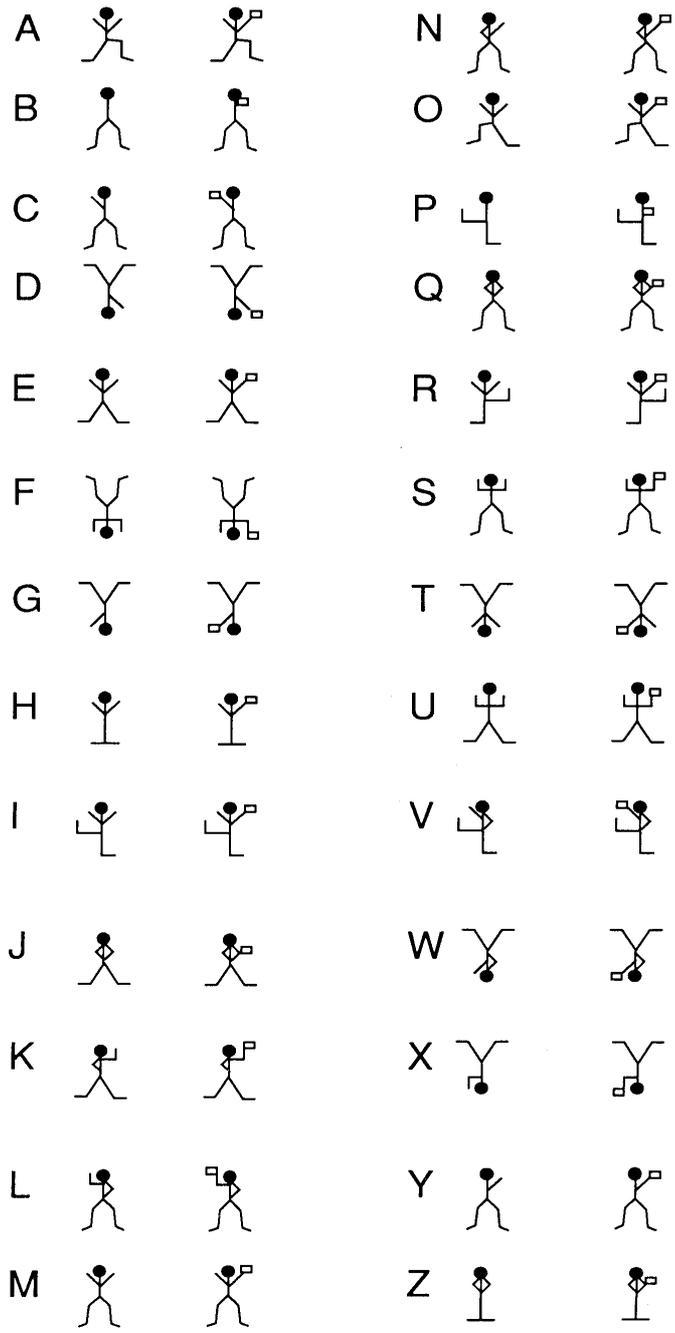
There were several different codes in the quiz. I was more than a little alarmed when several entries pointed out small, but significant differences in the codes to the versions that I had. I hope that nobody was seriously misled, but the messages could still be deciphered (I checked!). I think I need to update my reference books.

The first code was the Dancing Men figures on the top and bottom of each page. These, as most of you worked out, were a simple substitution code, based on the Sherlock Holmes short story *The Dancing Men*. In that story, a lot of letters were given, but not the whole alphabet, so I had to invent some, as follows:

When a man holds a flag, that signifies the end of a word. Using this key, the dancing men message translates to:

"Well done, you have found the code. Start from the National Trust car park. Go up the hill to the far end where the road swings left towards some houses and follow a narrow path through the trees. At the drive, turn right and when you reach Elrond's house, veer right onto narrow path through the woods with fence on left. At fork by fallen tree, look behind tree by stump. The place is marked with Logica logo".

As you can see, this is the detailed instruction as to how to find the code. Incidentally, this path and the fork is shown on the map for question 67, with an 'x' to mark the spot where the treasure is.



The next code is an astrological one - I couldn't resist sending up Rod Fine's theme from last year! This is another substitution code. The key is as follows:

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

There are three separate messages. The first decodes to:

"Armchair Treasure Hunt Nineteen ninety one two".

The one at the end of the quiz decodes to:

"A Merry Christmas from Frank, Pat and Steve".

...it saves on cards. The final one is the symbols underneath each picture. This decodes to:

"WE EZ PR RS GC ZA HV IE SI GL"

... which is totally meaningless, until you understand that these are the letters of another code. This is given in the next section.

The flags are the standard naval signalling flags and decode to:

"No sweat in M Twenty Five".

This is again fairly meaningless, until you read the introduction again. This says "finding such treasures has nothing to do with inspiration - just perspiration". This tells you that it is buried outside the M25 ring.

The dots in the pictures are yet another wind up of Rod Fine's quiz. He had invented a star code, but somebody had said that they were Braille! So in this case, they *are* Braille. The message decodes to: *"NORWOOD."* This agrees with the picture for question 12, in which the signpost shows that the way is to Norwood. Some might have thought that this was where the treasure is, but no, it is a complete red herring.

Some people might have noticed an awful pun, in that I thanked Frank Wood for inspiration, implying that Wood had nothing to do with the treasure. This pun was intentional, but it might also have steered you away from the Wild, Wild Wood, which was where the treasure *actually* was. My apologies if anyone was led astray, I only noticed this mistake after publication (not quite as bad as the mistake I found on the night before publication, that I had the P and V with the same Dancing Men code! If you look closely, you will see that the V's were corrected by hand).

Michael Green is a good friend of mine at Questors Theatre in Ealing. He was the rugby correspondent in the Times, and has also written the Coarse series of books (The Art of Coarse Acting, The Art of Coarse Rugby, etc.). These are very funny handbooks on how *not* to do things - hence the coarse of action (this was not a spelling mistake!). Finally, over Christmas 1989, he wrote a play called The Real Death of Sherlock Holmes, which had its world

premiere at Questors. I designed the sound for the show, and this stimulated my interest in the subject. We also toured the Edinburgh Fringe Festival with the show in August 1990, as Rosalind Barden found out.

In the play, Mike postures that Sherlock Holmes, who usually shunned women, was secretly in love with Watson, and committed suicide at the Reichenbach Falls when Watson became engaged to Mrs Hudson! Moriarty had already been killed and sent on a slow boat to China in a sealed trunk. It was all a good bit of fun.

My apologies to Sidney Paget are understandable, since I did plagiarise his wonderful drawings from the original short stories for the quiz pictures.

THE LOCATION OF THE TREASURE

In the introduction I told you that the treasure was east of Havenstreet and south of Wickham St Paul. Havenstreet is on the Isle of Wight, and Wickham St Paul is in Essex. This gives you the bounds to the area, assuming that it is on the mainland.

Also in the introduction, I said that "finding such treasures has nothing to do with inspiration just perspiration". The flags code said "No sweat in M twenty five". This tells you that it is buried outside the M25 ring, and eliminates Norwood.

So, where was it? The treasure itself was hidden near the Thames in a wood called Quarry Wood, just along from the National Trust Winter Hill site. This is near the village of Cookham in Berkshire.

There are three ways of finding the treasure: one intuitive needing a bit of luck and application, one giving good directions but hidden in a code, and one very difficult. Each method was equally valid. At least two different methods were employed by the finders of the treasure - my congratulations to them all.

The first method

The first is using the clues in the pictures and the headings to each page. The artist's name in each picture is simply intended to give you two items:

- a truth / fiction indication on the address given underneath that picture
- a location for that artist.

The artists were:

Artist	Area	Truth	Notes
Sidney Paget	London	Yes	The Sherlock Holmes illustrator
LS Lowry	Manchester	Yes	Just a nice artist
Tom Keating	n/a	No	The notorious forger
Toulouse Lautrec	Paris	Yes	Another nice artist
Arthur Rackham	London	Yes	Kenneth Grahame wanted him to illustrate <i>The Wind in the Willows</i> . He declined, but eventually did it some 30 years later.
Eric Hebborn	n/a	No	Another forger
Ernest Shepherd	London	Yes	The man who actually illustrated <i>The Wind in the Willows</i> .
Stanley Spencer	Cookham	Yes	The key man. He is always closely associated with Cookham. He lived there all his life, and many of his pictures are of the area.

Now, taking the addresses, and using the truth indicator on the artist to show whether it is a red herring or not:

Address	Red Herring?	Notes
16, Phillimore Place, Kensington	no	Where Kenneth Grahame wrote <i>The Wind in the Willows</i>
13, Mallord Street	no	AA Milne's home address. He dramatised <i>The Wind in the Willows</i> , making the perennial favourite <i>Toad of Toad Hall</i>
The Fenland College of Arts and <u>Technology</u>	yes	Where Wilt taught Meat 3.
The Wild, Wild Wood	no	From <i>The Wind in the Willows</i> . Kenneth Grahame grew up at Cookham Dean, and Quarry Wood is the basis for the Wild, Wild wood in the story Quarry Wood is right next to Winter Hill and the treasure is hidden there
6, Primrose Hill Studios, Fitzroy Road	no	Arthur Rackham's home address.
221B Baker Street	yes	Sherlock Holmes' fictitious address.
The Bank of England	no	Where Kenneth Grahame worked for most of his life
16, Durham Villas, Campden Hill	no	Where Kenneth Grahame wrote <i>The Wind in the Willows</i> . This is the Place previous name of Phillimore Place

So you can see that it is all leaning you towards Cookham and Quarry Wood. An examination of a map of that area gives you Winter Hill, an appropriate title, which is National Trust. The story encourages this, talking about a car

park overlooking a valley - this was a good description of the starting point for the Dancing Men code, which was on top of Winter Hill, overlooking the Thames.

The second method

The second uses a cipher called a **Playfair** code. This is named after Lyon Playfair, 1st Baron of St Andrews, although he did not invent it. It was invented by that famous physicist, Charles Wheatstone. The clues to the cipher were in the text of the final story ("If they're **playing fair** with me") and the picture for question 45, showing Wheatstone Bridge. The Wheatstone Bridge is a device in Physics for measuring electrical resistance, which was not invented by Wheatstone, but publicised by him, and so took his name. A parallel with the code?

The code itself is fairly simple. The letters of the alphabet are arranged in a 5 x 5 grid, combining i and j in one box. However, the key letters are arranged first from the top, working from left to right, as shown in the example below, using *keyword* as the linking word. These letters are placed first, followed by the remaining letters of the alphabet.

k	e	y	w	o
r	d	a	h	c
f	g	h	ij	l
m	n	p	q	s
t	u	v	x	z

The message is deciphered according to the following rules. Take pairs of letters and find them in the grid.

If the two letters are not in the same row or column, take the letters in the opposite corners of the rectangle made, eg n and w give q and e respectively. If the two letters are in the same row, then take the letters to the left of them, cyclically, eg w and o give y and w respectively. If the two letters are in the same column, take the two letters above them, cyclically. Thus y and a give v and y respectively.

So, the code is fairly straightforward, once you have the appropriate 5 x 5 grid to act as the key.

The key itself is hidden in the last story. This is quite a strange story, and may at first sight appear to be meaningless. However, there are certain elements in it which are recognisable. "An enormous smooth black area covered with wheeled vehicles" is actually a car park, filled with different makes of car. The items in the story all relate to the badges on these makes of car. These are as follows:

- lion - Peugeot
- wyvern - Vauxhall
- Viking ship head on - Rover
- Viking ship sideways - Lada
- Union flag - Standard
- Globe of the world - Triumph
- five pointed star in pentagon - Chrysler
- black horse - Ferrari

- blue and white chessboard - BMW
- snake and cross - Alfa Romeo
- lightning flash in a circle - Opel
- rugby goalposts - Honda
- ornate D - Daimler
- red cow over a river - Morris.

Once you have these, the grid is as follows:

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

Using this grid and the rules above, the letters in the corner of each picture decode into the following message:

"Find Stanley Spencer at Cookham. Thames to Cock Marsh. Treasure at Winter Hill".

This gives you the location of the starting point for the route to the treasure - Winter Hill National Trust car park.

The third method

The final, very difficult, way to the treasure was using a more obscure code. This is de Vigenere code, as used in the Chess treasure hunt 2 years ago. In this code, you have a code-word or phrase, say CODEWORD and this is repeated alongside the message, eg

COME AT ONCE ALL IS DISCOVERED
 CODE WO RDCO DEW OR DCODEWORDC

Each pair of letters is then used to reference a grid of the letters of the alphabet in a 26 x 26 matrix, shifting the letters along one place in each row, as follows:

```

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

```

Once you have the code word, you can simply read back the message. In this case, the code phrase is simple, and you are told it on the title page:

The solution to this puzzle is ELEMENTARY MY DEAR WATSON.

Using the last four words, the astrology code letters underneath each picture decode to:

"STANLEY SPENCER IN WINTER"

Stanley Spencer was always associated with Cookham, and the reference to Winter gives you Winter Hill.

SCORING

As usual, I have awarded a number of points for each question equal to the number of *wrong* (or omitted) answers to that question. 59 people entered the hunt, so a question answered by only one person scores 59 and a question answered by everybody scores 1. The number of points awarded for each question is shown in square brackets by each of the answers. The maximum possible score was 2435.

The treasure box contained a set of raffle tickets, finders being asked to tear off the next one and attach it to their entry. Anyone doing so was awarded a number of bonus points, being (the number of people who entered * 2 minus the number of their ticket).

There were a number of contentious answers which were fully discussed by myself, Pat and Frank. We have erred on the generous side, but were more critical of entries in contention for prizes. If we have marked the answer you worked hard on as wrong, please accept my apologies.

THE RESULTS

First to the treasure box was Wendy Petty, on the 30th December. Well done to her for cracking the code. Second and third were Brian Mills and Martin Milnes, who also cracked the code. Fourth to the treasure were the Wild Boys, who were also the overall winners. They found the treasure in true pioneering style, using the intuitive method. They write...

"In searching through the treasure hunt there are several connections to "The Wind in the Willows", which is set around Cookham Dean. There are lots of other references to Cookham, including Stanley Spencer and National Trust properties including Winter Hill (hillside with valley below?), Cock Marsh and Cookham Moor (marshy tract across a moor?); this was all too much, we had to go and investigate. You can imagine our excitement when we found a house called "Sherlocks" with an identical silhouette of Sherlock Holmes to that on the back page. We also passed a pub called "The Chequers" with a blue and white chess board as the pub sign. We were not at all surprised to be told by the local post office that there was a house Gust down the road) called Rivendell near a National Trust car park. Well from there it was just plain sailing! "

All prizewinners should find their Harrods tokens enclosed with these answers. You are encouraged to buy shares, stocks, alcohol or whatever you fancy.

The roll of honour is on the next page. I must emphasise that these placings are merely for interest; doing well is more a matter of time spent than true general knowledge. Something tells me that perhaps we ought to swing it more towards treasure hunting next year, rather than library hunting. You have been warned!

Placing	Name	Treasure	Points	Prize
1.	The Wild Boys	4	2118	£50
2.	David Kee		2031	£25
3.	Andrew Healey		1900	£15
4.	Pablo		1802	
5.	Rod Fine		1792	
6.	Wendy Petty	1	1733	£50
7.	Rosalind Barden		1710	
8.	Paul Martin et al		1704	
9.	Mark Amey		1690	
10.	Nick Hassell		1684	
11.	Dave Harding		1683	
12.	Ros Skelcher		1656	

13.	Brian Jackson		1654
14.	Richard Meats		1608
15.	Brian Mills	2	1603
16.	Carl Haigney		1591
17.	Peter Smith		1488
18.	Clef		1394
19.	Steven Green		1385
20.	Deborah Boss		1356
21.	Greg Roach		1303
22.	John Kendrick		1278
23.	Mark Norman		1264
24.	David Isaacson		1166
25.	John Bray		1097
26.	Donna Gerrard		1059
27.	Chris Harries et al		984
28.	Powergen		967
29.	Paul Tribick		960
30.	Andrew Macleod		889
31.	Lynette Halewood		799
32.	Julian Slater		769
33.	Ralph Greenwell		759
34.	Richard Porter et al		757
35.	Chris Jones		740
36.	Paul Gunningham		736
37.	Sarah Elmer		681
38.	Sarah-Jane Austin		680
39.	Stephen Lee		676
40.	Martin Milnes	3	648
41.	Steve and Carol Morris		629
42.	Alison Richardson		571
43.	Iain Sillars		570
44.	Ian Canning		564
45.	Peter Orme		541
46.	Danny Mollan		519
47.	Peter Milne		495
48.	Adrian Perkins		487
49.	Steve Conroy		438
50.	Janette Patterson		428
51.	Nick Rule		427
52.	Jolly Roger and the Weary Wanderers		393
53.	Mike Wallington		338
54.	Ged Langosz		270
55.	Simon Weathers		269
56.	Jeremy Nash		257
57.	Laura Foster		242
58.	John Stewart		155
59.	Peter Radford		108
			£10