

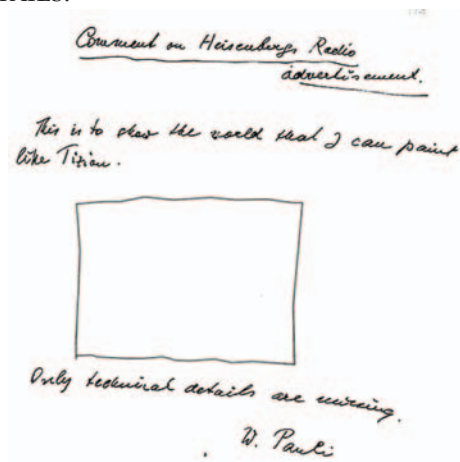
Gut Reaction

by Gareth

Unclued entries make the instruction RUB CHECKED LETTERS OUT. Once this is done the remaining letters spell TECHNICAL DETAILS.

The completed intermediate solution grid is shown below, but the original 'painting' (right) explains the theme and shows why the entry grid was to be left blank.

Heisenberg had announced that a Grand Unified Theory (GUT) was on the horizon, with only the technical details needing ironing out. This was Pauli's reaction (hence the title).



1	T	A	T	O	O	I	S	T	H	A	S	T	A								
15	E	C	R	U	B	H	N	C	H	E	C	K	E	D							
16	P	H	E	N	O	M	17	S	O	R	I	C	I	N	E						
18	H	E	N	G	I	S	T	19	T	O	L	E	D	O	S						
20	A	I	D	O	S	22	C	A	23	T	E	R	25	P	A	R	26	R			
27	H	28	A	L	O	29	T	I	R	E	D	31	A	T	32	S	E	A			
33	D	34	U	N	L	35	I	N	36	S	N	37	O	T	39	E	L	40	E	T	
41	A	B	O	I	D	E	A	U	42	M	I	L	A	G	E						
	L	E	T	T	E	R	S	T	A	O	U	T	I	L							
43	T	R	I	E	S	44	T	H	O	R	N	L	E	S	S						

WOLFGANG PAULI

Clue explanations

Across

- 1 TATTOOIST TATTOO IS T'
- 10 HASTA hidden
- 16 PHENOM POM around HEN
- 17 SORICINE SO RI CINE
- 18 HENGIST (THE SIGN)*
- 19 TOLEDOS (GOOD STEEL)* – EG
- 20 AIDOS (I DO) in AS
- 22 CATER 2 defs
- 25 PARR PARL with R for L
- 27 HALO (A HOL(y))*
- 29 TIRED TI RED
- 31 AT SEA 2 defs; "wonderful" at sea (i.e., jumbled) is "underflow"
- 33 DUNLINS "DONE LINNS"
- 37 NOTELET NO TEL ET; pun on "ET phone home"
- 41 ABOIDEAU (ABIDE AU) around O'
- 42 MILAGE (EG A LIM(b))<
- 43 TRIES 2 defs; ref Rugby Union's five points for a try
- 44 THORNLESS T HORNLESS; thorn is Old Norse letter, so not pangrammatic without it!

Down

- 2 ACHE (c)ACHE(t)
- 3 TREND T' R END &lit
- 4 TUNG "TONGUE"
- 5 OBOIST EGOIST with OB for EG
- 6 OHMS OHMS; symbol for resistance & On Her Majesty's Service
- 7 INSTAR 2 defs; hot chemistry occurs 'in star'
- 8 SCOT 2 defs
- 9 THROE RE(d)-HOT*
- 10 HEIL (s)HEIL(a)
- 11 ACCEPT CEP in ACT
- 12 SKID SKI'D
- 13 TENOR TEN OR
- 14 ADÈS 2 defs; ref composer Thomas Adès & Milton's (who was blind) version of Hades (H(old) A H(igh) P(riest's) E(vening))<; see cor² in Chambers
- 21 OOLITE OO-LITE; pun on "oo – licence to kill", ref James Bond
- 23 TENUTO (TUNE TO)*
- 24 RATION RAT ION; ion has excess negative charge
- 26 RATEL LATER with L/R switched
- 28 AUBER (fl)AUBER(t)
- 30 INERT IN ERT; XP in "ert" renders "expert"
- 32 SLATE 2 defs
- 33 DALT D ALT
- 34 NOT-I NO TI; ref "Doe, a deer..."
- 35 IDES ID ES(t)
- 36 SASH S AS H; "class" with S as H would be "clash"
- 38 OMAR hidden; Omar means 'flourishing', see Chambers names appendix
- 39 ELUL DUDE< with L's for D's
- 40 EGIS (p)E(n)G(u)I(n)S

Sixty (Carte Blanche et Noire)

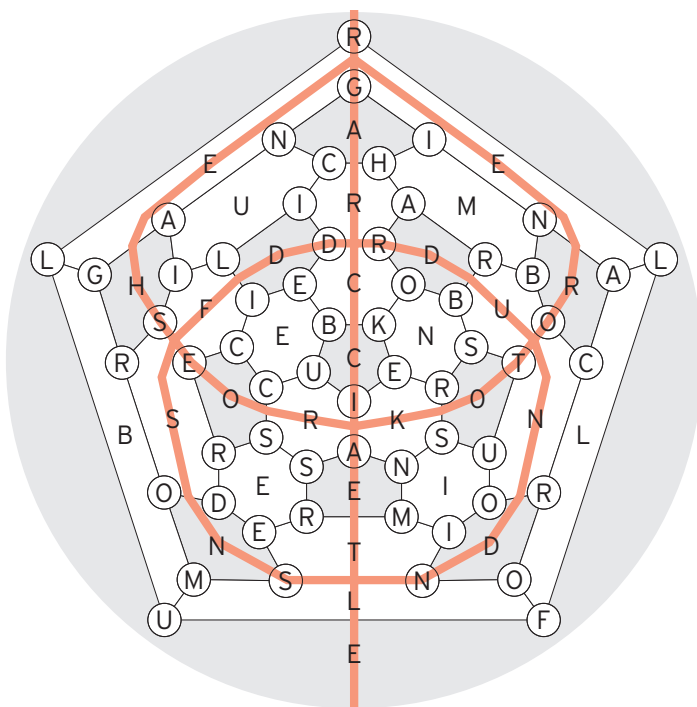
by Mash

Answers to clues were: ACHING*, BORDAR, BUCKIE*, CARBON, DEMONS, ENARMS*, FULLER*, GARISH, INDOOR, LIDDIE, ROUSTS, SOCCER.

BEDROCK*, BONKERS, BORGLUM, BRAHMIN, BURBOTS, CALL FOR, CROUTON, CUILIAN, CUIRASS*, DORSERS, FILICES, GANGREL*, ICE CUBE, MINSTER*, MUFLONS*, NIMIOUS, REDRESS, REGINAL*, RICHARD*, SNAKIER*.

Asterisks show answers whose clues had redundant words as follows: "Place moved letters centrally within faces. remainder form vertices, all triple checked". The four answers hinting at the theme were: RICHARD, BUCK(IE), MINSTER, FULLER. The removed letters from the seven-letter answers made BUCKMINSTERFULLERENE, also known as Carbon 60 (or Buckyball), which takes the form of a truncated icosahedron. This is equivalent to a bitruncated DODECAHEDRON, formed from the six-letter removals, where the only remnants of the original 12 faces are the 12 pentagons in which the letters sit. The traditional shading referred to is that of a 32-panel football where the pentagons are black and the hexagons white, used as the official ball of the 1970 World Cup in Mexico. The two other six-letter answers referred to were CARBON and SOCCER.

The diagram shows the completed grid stretched flat.



Seven-letter entries could be entered in either direction with the same (mirror-image) final result. With removed letters at the centre of faces and others at vertices, there are only a possible 15 great circles that pass through 12 letters. The one touching all twelve entries with redundant words in their clues is shown as the vertical line through the centre of the diagram, whose letters may be anagrammed to produce A GREAT CIRCLE. The two others shown are at right angles to it and each other, therefore crossing each other at the points furthest from it, where BURBOTS and CROUTON, DORSERS and FILICES meet as per the preamble.

Clue explanations

Extra words where applicable given first, followed by the letter to be placed centrally in each face.

Six letters

place	A	ACHING	(te)ACHING
	D	BORDAR	BORDER with A for E
moved	C	BUCKIE	2 defs
	R	CARBON	CAR B ON
	N	DEMONS	hidden
letters	E	ENARMS	(MEN AS R)*
centrally	E	FULLER	2 defs
	H	GARISH	(HIS RAG)*
	D	INDOOR	O in RODIN*
	D	LIDDIE	(DI LIED)*
	O	ROUSTS	US in ROT + S
	O	SOCCER	(SCORE O)*

Seven letters

within	C	BEDROCK	pun definition
	N	BONKERS	2 defs
	B	BORGLUM	L in (MUG ROB)<
	M	BRAHMIN	BRAHMS with IN for S
	U	BURBOTS	RUB< BOTS
	L	CALL FOR	C ALL FOR
	N	CROUTON	ROUT in CON
	U	CUILIAN	initial letters
faces	R	CUIRASS	CUIR ASS
	S	DORSERS	DORSET'S with R for T
	F	FILICES	IC in FILES
remainder	E	GANGREL	GEL around ANGR(y)
	E	ICE-CUBE	(d)ICE CUBE; $8 = 2^3$
form	T	MINSTER	N in MISTER
vertices	L	MUFLONS	(F L ON) in SUM<
	I	NIMIOUS	IOUS after NIM
	E	REDRESS	2 defs
all	E	REGINAL	REGI(o)NAL
triple	R	RICHARD	RICH and HARD with H overlapping
checked	K	SNAKIER	(NEAR SKI)*

Wood

by Mr Magoo

The puzzle celebrated the first five years of The Magpie.

The four central letters of EQUINE when 'read' as instructed in the preamble give QUINQUENNIUM, a period of five years (19d solution was METATE). The other (five) hints to the theme were:

- Unclued words were all anagrams of words meaning five years – six of LUSTRE (LUTERS, LUSTER, RUSTLE, SUTLER, RESULT & ULSTER) and two of PENTAD (PANTED & PEDANT),
- Five words in the grid (highlighted) form common phrases with 'year' (LEGAL, GAP, LIGHT, LEAP & GREAT),
- Five Ys fill remaining blank cells after solving clues, all creating longer real words,
- Five words (from initial letters of clue words that needed to be jumbled) meaning Year (JUBILEE, WINTER, ANNAL, ZODIAC & INDICTION),
- 'Wood' is the fifth wedding anniversary.

1	L	2	E	3	G	4	A	5	P	6	R	7	E	8	C	9	T
	U	M	A	S	E	L	U	T	E	R	S	E					
10	S	U	L	U	11	E	N	S	N	A	R	E	S				
12	T	O	O	T	S	13	Y	T	E	P	I	D	T				
	E	14	U	P	L	E	D	15	L	A	R	N	E	Y			
16	R	O	B	17	E	18	Q	U	I	N	E	20	G	A	P		
21	G	L	A	R	E	L	22	A	23	B	S	24	E	Y	E		
	R	25	T	R	26	O	T	S	27	Y	E	U	K	E	D		
28	E	B	R	I	A	T	E	D	29	L	I	30	P	A			
	A	P	A	N	T	E	D	E	T	N	A	N					
31	T	O	T	T	E	R	Y	32	L	I	G	H	T				

Clue explanations

Word anagrams given after clue numbers

Across

1	Jural	LEGAL	LEG (g)AL(e)
5	instruct	PRELECT LUTERS	PR ELECT
10	fibre	SULU	2 defs; ref TV Star Trek series
11	regions	ENSNARES	ENS N ARE(a)S
12	toilets	TOOTS[Y]	2 defs
13	searing	TEPID	P in DIET<
14	aisle	UPLED	(co)UPLED
15	town	LARNE[Y]	LANE around R
16	denied	ROB	ROB(e)
18	Rosinante	EQUINE	(s)EQUINE(d)
20	outside	GAP	A in GP
21	one	GLARE	GE around LAR
22	Reviling	ABSEY	AB(u)SE
25	beldam	TROTS	2 defs
27	Eastern	[Y]EUKED	E DUKE*
28	On	EBRIATED	(BEAR TIED)*
29	Croat's	LIPA PANTED	LIP A
31	dealer	TOTTER[Y]	pun def
32	Blaze's	LIGHT	2 defs

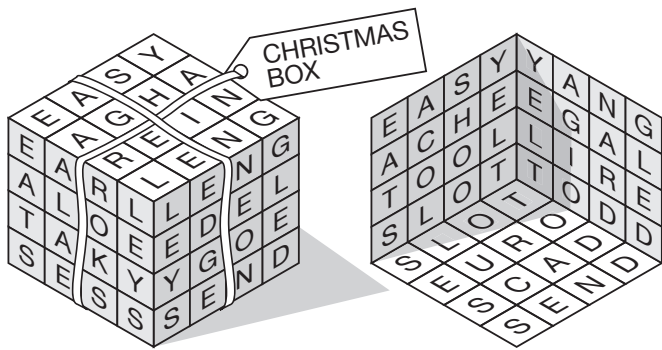
Down

1		LUSTER	
2	Slow	EMU	EMU(late)
3	density	GALOP	LAP(d)OG*
4	time	LEESE RUSTLE	LEE SE(t) [E changed to I as per preamble]
6	related	ETNEAN	(g)ET (o)NE (m)AN
7	dialect	LEAP	2 defs
8	Sinning	ERRING	'ERRING'; see Chambers entry for 'great hundred' (couldn't)T (car)E (les)S (abou)T
9	thing	TEST[Y] SUTLER RESULT	
17	soused	BARRAT	BAR RAT
19	dining	METATE	MET ATE [M changed to Q as per preamble]
		ULSTER PEDANT	
21	scrape	GREAT	homophone (GRATE)
23	Staff	BEDEL	BLEED*
24	kin	EKING	KIN in EG
26	Soiled	OINT	INTO*
30	natives	PAH	HAP<

Present from Pieman

The 'triple' clues were to be linked together by their first and last letters to form the vertices of a cube, and the 'other' clues then filled in each face. Adding the alphanumeric values of the central two letters in each asterisked clue to those of the string given (and then cycling back to 1 from 26 if necessary) produces the message "Last letters of triple clues". These letters in turn read "Christmas Box", which describes the form of the grid.

Shown below is the box from the outside next to the 'invisible' faces seen from the inside. To be acceptable, solutions had to demonstrate understanding of the form of the grid including the words "Christmas Box", and contain no errors.



Clue explanations

Triple clues

EARL	hidden
EASY	(qu)EASY
EATS	(p)EAT S
GLED	GL(i)DE(s)* &lit
LENG	MENG with L for M
LEYS	(s)LEYS
SEND	'S END
SESS	SESS(a)
SLOT	S(e)L(l)O(u)T(s)
TODD	D after DOT<
YANG	ANG after Y(ahoo)
YELT	(securit)Y (creat)E L(and) T(ax)

Other clues

ACHE	(t)ACHE; Charlie = small moustache
ACOL	(car)ACOL
AGEE	A GEE
AGHA	AGHA(st)
AGIO	A GI(r)O
ALAE	ALA(t)E
ALOE	(ped)ALOE(s)
EDEL	(w)EDEL(n); Edel means 'darling', see Chambers names appendix
EDGE	(w)EDGE
EGAL	(l)EGAL
EURO	(n)EURO(n); news = plural of new
LIRE	LI(t)RE
LUCE	LUC(erne) E
NARD	(don)NARD
NEON	'N' EON
ORAN	O' RAN
REIN	RE(fra)IN
ROKS	RO(c)KS
SCAD	'S CAD
SHIN	(H(ebrew) SIN)* &lit
SHOO	SHOO(t)
TAKY	TA(c)KY
TOOL	LOOT<
YGOE	hidden

Itinerant

by Tiburon

The puzzle was based on the phrase 'Wandering Jew'. Chambers confirms this character from folklore was, among other names, sometimes referred to by the name CARTAPHILUS. Wandering Jew is also given as the name of several trailing plants, especially TRADESCANTIA FLUMINENSIS. The initial 12 letters in the grid (in row order) spelt TRADESCANTIA and had to be changed (in column order) to WANDERING JEW, always creating new words.

1	P	2	S	3	A	4	M	5	I	6	T	7	E	8	L	9	J	10	S	11	A
10	E	P	I	C	A	L	H	11	N	O	O	K	S								
12	W	I	R	E	R	13	D	R	Y	S	U	I	T								
	S	N	Y	14	M	15	R	E	S	E	R	V	E								
16	O	17	A	M	E	N	18	D	A	B	L	E	E	R							
19	B	L	A	D	E	I	20	T	I	21	F	O	S	I							
22	D	23	I	N	E	R	S	E	24	S	E	R	25	F	S						
	U	D	26	A	27	R	G	E	N	T	I	N	E	M							
28	R	O	29	G	U	I	N	G	R	S	30	D	I	31	W						
32	A	L	A	M	O	R	T	33	A	G	O	N	E								
34	C	O	M	B	E	O	35	G	I	A	N	T	S								
	Y	N	E	O	36	B	L	I	N	D	E	S	T								

Clue explanations

'Keyed' letters are given after clue numbers in relevant clues, those missing from wordplay in remaining clues are in square brackets.

Across

- 1 F PSAMMITE MITE after PSA M(ountain)
- 10 L EPICAL EL about PICA; fabulous = of fables => of epics
- 11 ROOKS [R] OK in OS; building is collective for rooks
- 12 AIRER [A] (h)IRER
- 13 U DRY SUIT I(n)DUSTRY*
- 15 DESERVE [D]E-SERVE
- 17 EMENDABLE [E]MEND ABLE
- 19 BLASÉ [S] in ABLE*
- 20 M TIFOSI hidden<
- 22 DICERS [C] in DI(v)ERS
- 24 I SERFS "SURF" S(aturday)
- 26 ARGENTINA GENT in RAIN*[A]
- 28 N ROGUING GO< in RUIN G
- 32 E ALAMORT (h)AL(f) A MORT
- 33 ATONE [T] in A-ONE (A1)
- 34 COMBI COMB[I]
- 35 N GIANTS (SANG IT)*
- 36 BLANDEST [A] in BL(o)NDEST

Down

- 1 PEAS [A] in SEP<; nut = small lump of coal = pea
- 2 SPINEL [E] in N in LIPS< (&lit)
- 3 S AIRY (f)AIRY
- 4 I MARINE I in MARNE
- 5 S THREATEN (THEN TEAR)*
- 6 C LOSEL L under LOSE
- 7 TOUR [T] OUR; see the in Chambers
- 8 A SKIVES hidden &lit
- 9 R ASTERISM (REMISS AT)*
- 14 MESE [S] in (sp)EE(ch) under M(arxists)
- 16 T OBDURACY B DU in ORACY
- 18 A DISENROL (RED LIONS)*
- 21 P FEIS IS under FE
- 23 H IDOLON 'I DO' L ON
- 24 I STRAIN S TRAIN & 2 defs
- 25 FAINTS [A] in FINS around T
- 27 L RUMBO BO under RUM
- 29 U GAME E after GAM
- 30 S DONE 2 defs; U = socially acceptable = done, rushed = defrauded = done
- 31 NEST [N]EST

65 Deplug and 47 Renoir

by Mash

The theme is Ordnance Survey mapping of sights of England. The grid represents the country as a whole (very roughly) as well as sections of a map (very accurately), using Northings and Eastings to number rows and columns. Digits are encoded as follows: 0 = O, 1 = I, 2 = ADK, 3 = CJP, 4 = HSX, 5 = BLZ, 6 = ENR, 7 = TUV, 8 = MQY, 9 = FGW, giving the initial grid:

9	5	1	7	6	6	5	1	6	2	4
8	4	6	2	2	1	6	9	5	6	8
7	4	3	2	5	6	9	0	6	3	6
6	3	4	2	7	4	9	0	6	7	4
5	1	6	0	6	5	6	1	2	9	6
4	2	8	7	2	6	4	7	5	1	4
3	4	7	0	6	6	4	6	6	9	6
2	2	5	5	6	6	7	4	2	5	5
1	4	2	1	6	7	3	2	7	5	4
0	4	8	4	7	1	3	7	0	6	8
	0	1	2	3	4	5	6	7	8	9

As well as being correct algebraic expressions for the ten digits to be encoded and entered initially, across clues consist of a brief description of the relevant attraction, followed by the six-figure OS grid reference (digits encoded). Answers are: LIVER BIRDS, HEADINGLEY, SCALE FORCE, CHATSWORTH, IRONBRIDGE, AQUAE SULIS, STONEHENGE, ALBERT HALL, SAINT PAULS, HMS VICTORY.

Down clues also give the initial entries numerically, but in addition provide solvers with a jumble of the correct letters to be used in each column followed by the substitutions needed to reveal the ANGEL OF THE NORTH in the north east and the CERNE ABBAS GIANT in the south west.

The title is an encoding of their OS grid references NZ 263579 and ST 666016 respectively. Locating these on an OS map using progressive enlargements of the grid (100km, 10km and 1km along the side) visits the letters TAO and OFE respectively. Combined with the letters of the title these give the final message to be written under the grid.

9	L	I	V	E	R	B	I	R	D	S
8	H	E	A	D	I	A	N	G	E	L
7	S	C	A	L	E	O	F	T	H	E
6	C	H	A	T	S	N	O	R	T	H
5	I	R	O	N	B	R	I	D	G	E
4	A	Q	U	A	E	S	U	L	I	S
3	C	E	R	N	E	H	E	N	G	E
2	A	B	B	A	S	T	H	A	L	L
1	G	I	A	N	T	P	A	U	L	S
0	H	M	S	V	I	C	T	O	R	Y
	0	1	2	3	4	5	6	7	8	9

A DOZEN TIPS RE TOUR OF ENGLAND

Logical solution path

All answers are assumed to be filled in as soon as their positions and constituent letters are known.

Make no assumptions about encoding except that answers should be positive whole numbers, concatenations do not start 0, and rows are completely filled ("entered consecutively").

7.iiia: A = 2, giving 256.

1.iiia: Q = 8, giving 32.

2.id: S a square, but 0.iiia means not 9, and 5.iiia means not 0 or 1, so S = 4.

0.iiid: H >= 3 or answer less than 4 digit, 0.iiia: H is square, 9.id: H = 4 unless Y is multiple of 3, 4.1a: 7.iiia: Y is cube, hence H = 4. Also 9.id means Y not 1, so Y = 8.

7.id: R is even, and $(R/A)^4 - R > 29$ but < 100 (for 4 digits), so R = 6.

9.i and 9.iva are both 2-digit, so 0.iiia being 3-digit means P = 3.

5.ia 3-digit (because 4.ia 2-digit, hence 5.iv by symmetry, and 5.iii also), hence 4.ia means M = 8.

8.iiia: N even, 4.iiia: N not 0 or 8, 6.iiid F >= 6, 5.iiid: F a factor of N², but F cannot be 8 (all taken), so N = 6, F either 6 or 9. Hence 7.iiia 3-digit and T >= 6.

2.i and 2.iiia: CE and CO both divisible by 6, so E and O six apart and even, not 8, so E = 6 (3.iiia means E not 0), and O = 0.

All 6s taken, so F = 9, and 2.ia gives C = 3.

3.iiid starts 66, hence must be at the bottom, 1.iiid must start 7 hence is also at the bottom, so starts 75 meaning I <= 2. Therefore 3.ia ends 70 (6 x U8 must end 8), so U either 2 or 7. But 6.id says U is a factor of T squared, so T,U both = 7.

2.iiia: 517 + V² has middle digit 6, so V = 7. Now 6, 7, 8 all used up, and 7.iiid gives G >= 6, so G = 9.

1.id: must be 3468, so L = 5. 2.id = 7223 - I so I = 1.

2.iiid cannot start 0, so is 7051, so B = 5.

7.iva = 36, so K = 2. Now we know that the singles are 0 and 1, so 3.iva means D = 2.

5.iiid = 6447, so W = 9. 9.iiia starts 51, so J = 3. X square so X = 4. Hence Z = 5. Done.