

Christmas Quiz XIV

All questions are sequences – they may be mathematical, historical, literary or any other form of sequence. Please give not only your answer but your reason: alternative answers will be accepted as valid provided they are no more obscure than the sequence in the question. All reference sources are permitted.

Answers will be available from Epiphany from www.edrith.co.uk with honour and glory to the highest scoring individual/team. Please email me with your completed answers by 11:59pm GMT on 5th January for a chance at victory or the honour roll.

No.	Sequence	Answer	Reason
1	1, 3, 6, 10, 15	21	Triangular numbers
2	Netherlands, Israel, Portugal, Ukraine, Sweden	Austria	Eurovision winners in reverse order.
3	1, -1, -1/2 + i√3/2, i	$\frac{-1+\sqrt{5}}{4} + i\sqrt{\frac{(5+\sqrt{5})}{8}}$	Nth roots of unity (taking the first from the real axis anticlockwise)
4	1096, 1209, 1410, 1451, 1495	1583	Foundation dates of oldest British universities
5	9, 99, 999, 922, 22, 229	2299	Roman numerals written out by letter value
6	M, V, E, M, C	J	First letters of planets, including dwarf planets
7	Wales, Celts, Celts, Devon, Coal	Perm	What the geological periods were named after
8	5, 4, 0, 4, 3, 2	7	Number of humans who travel from Earth to Narnia in each Narnia book
9	B, C, D, E, H	I	Letters with vertical symmetry
10	Elinor, Elizabeth, Fanny, Emma, Catherine	Anne	Main characters of Austen novels in order of publication
11	1, 1/4, 2/9, 3/16, 1/5, 2/9	13/49	Fibonacci over Squares
12	Solar System, Milky Way Galaxy, Local Group, Virgo Supercluster	Laniakea (accept Pisces-Cetus Supercluster Complex)	Things our sun is in in ascending order of size
13	Billy, Charlie, Gilbert, Roy	Gilbert	Order of Anne Shirley's proposals
14	287, 35, 16, 6, 15	42	Length in months of Henry VIII's marriages
15	2.2, 4.7, 96, 1280, 4180	173,100	Mass of quarks in MeV
16	240, 95, 312, 8, 70	109	Margin of victory in first round of 'indicative votes' on Brexit on 27 March 2019.
17	1, 11, 110, 1010, 1111	10011	Triangular numbers in binary
18	FMTY, SLY, IWTHYH, CBML	AHDN	Initials of No. 1 hits by the Beatles
19	Menace, Attack, Revenge, Hope	Empire (accept Strikes)	Noun in each Star Wars film
20	C, G, D, A	E	Major scales in ascending number of sharps
21	Edward, Richard, James, Anne, Mary	Mary	English monarchs (post-1066) in ascending length of reign
22	Peterhouse, Clare, Pembroke, Gonville and Caius	Trinity Hall	Cambridge colleges in order of foundation
23	Frozen water, ash, dawn, lion, beauty	Flower	Meanings of names of official Disney Princesses in order of appearance
24	2, 1, 2, 1, 2, 4, 9, 4	2	Alternate digits of e
25	28, 16, 24, 21, 28, 16, 16	13	Chapters in books of the New Testament
26	Harrow, Haileybury, Harrow, Eton, Eton, Eton	Royds Hall Grammar School /	Where UK PMs went to school, beginning with Churchill

		Wirral Grammar School for Boys	
27	Ganymede, Titan, Callisto, Io	Moon	Moons in descending order of size
28	70, 69, 68, 64, 64	62	Age of oldest US Presidents at date of first inauguration (62 is Eisenhower)
29	Mail, Grandmothers, Ted, Cousins	Pier	Katie Morag books
30	Ordovician, Devonian, Permian, Triassic	Cretaceous	Mass extinctions
31	Minsk, Pinsk, Omsk, Tomsk	Akmolinsk	Order of places in Tom Lehrer's 'Lobachevsky'
32	-1.46, -0.74, -0.27, -0.05	0.03	Apparent magnitude of brightest stars in the sky in descending order
33	Schlamme, Lehmann, D'Elia, Taylor, Graves	Misiano	Director of square numbered West Wing episodes
34	Opening, Cow, House of Imran, Women, Food	Cattle	Order of Surahs in the Quran
35	1, 4, 10, 20, 35	56	Sum of triangular numbers
36	Deer, Sunlight, Name, Distance	Needle	Order of things in 'Doe, a deer'.
37	A, B, Γ, Δ, E	Z	Greek alphabet
38	82,000, 69,000, 60,000, 58,000	33,000	Area of world's biggest lakes, rounded to nearest thousand km ²
39	Dark wizards, werewolves, ghosts, faeries, fallen angels, vampires	Necromancers	Principal adversaries in each book of The Dresden Files
40	Konrad, Ludwig, Kurt, Willy	Helmut (accept Walter)	Chancellors of West Germany
41	Limbo, Lust, Gluttony, Greed, Wrath	Heresy	Circles of Hell (Dante)
42	Warthog, Seahorse, Chameleon, Whale	Sloth	Subject of songs, in order, in 'Bestiary of Flanders and Swann'
43	$x, -x^3/6, x^5/120, -x^7/5040$	$X^9/362880$	Terms in expansion of $\sin x$
44	Sorrow, Joy, Girl, Boy	Silver	Magpie rhyme
45	William, Joseph, Christopher, John, Cyril	Samuel	First names of Presidents of the Royal Society
46	2, 12, 36, 80, 150	252	$x^3 + x^2$
47	Packers, Packers, Jets, Chiefs, Colts	Cowboys	American Super Bowl winners
48	Ephesus, Smyrna, Pergamum, Thyatira	Sardis	Churches written to in Revelation
49	David, Greg, Jo, Sam, Chris	Jo	Universities and Science Ministers from the beginning of the Coalition onwards
50	2, 6, 0, 1, 2	1	Goals scored by England in each World Cup 2018 match
51	e4, c5, Nf3, d6	d4	Moves in Sicilian Defence chess opening
52	Sydney, Rome, Kuala Lumpur, Istanbul, Hong Kong	Paris	Locations of the World Congress of Accountants in reverse order
53	8, 85, 129, 25, 2, 3, 14, 15	6	Elements in the periodic table, with letter symbols converted to numbers
54	Horseman, Chariot, Elephant, Crusader, Dragoon	Cavalry	Progression of cavalry units in Civilization II
55	J, J, M, M, W, G	D-P	Initials in James James Morrison Morrison
56	Malt, Rat, Cat, Dog, Cow	Maiden	Things in 'The House that Jack Built'
57	Meth, Eth, Prop, But	Pent	Order of organic prefixes
58	325, 381, 431, 451, 553	680-681	Dates of major church councils
59	President, Vice-President, Speaker of the House, President of the Senate	Secretary of State	Order of succession in USA if people are killed.

60	Knight, Miller, Reeve, Cook	Man of Law	Tales in The Canterbury Tales
61	210, 461, 917, 1396, 1816	2104	Distance to stops on Trans-Siberian railway
62	Ruth, John, Margaret, Susan	Titty	Order of children by age in Swallows and Amazons
63	T, R, E, E, I, T, M, T, W	C	Order of letters (anglicised) that make up the haMephorash in Scott Alexander's Unsong
64	Red, Orange, Yellow, Green, Blue	Indigo	Colours of the rainbow
65	Station, bath, underground, shopping, painting	Theatre	Key elements in first Paddington stories
66	1, 1, 9, 6, 3	9	Even digits of pi
67	North East Fife, Kensington, Perth and North Perthshire, Dudley North	Newcastle under Lyme	Closest seats (by number of votes) in 2017 election
68	Glitter, Wander, Wither, Reach	Wake	Verbs in the poem 'All that is gold does not glitter.'
69	Ancient Empires, Middle, Exploration, Absolute Monarchs	Enlightenment	'Ages' in the CC Timeline Song.
70	1832, 1867, 1884, 1918, 1928	1969	Major voting reform Acts in the UK
71	2, 3, 5, 7, 13, 17, 19	31	Mersenne Primes
72	Avir, Eykha, Ach, Ki	Hazarnu	Opening words of each verse of Jerusalem of Gold
73	6, 7, 9, 8, 6, 8	6	Letters in each day of the week
74	All alone, Boys, Rivals, Makers	Symbols	Things in Green Grow the Rushes O
75	Just, More, Again, The Fourth	Still	Words that aren't 'William' in Just William series of books
76	Metropolitan, District, Circle, City and South London	Central	London Underground lines in order of opening
77	Leicester, New College, Oriel College, Sussex, Keele	Sussex	Winners of University Challenge
78	Fly, Spider, Bird, Cat, Dog	Cow (accept Goat)	Things that the old lady swallowed in the song
79	3, 6, 8, 7, 10, 10, 8, 9	4	Scrabble points of each number
80	Owen, Ed, Owen and Julia, Steve and Poppy	Graham and Laura	Winners of the Christmas Quiz
81	First, Under Stars, Glorious, Sudden Flame	Unnumbered Tears	Battles of Beleriand
82	74,600, 54,400, 57,400, 46,500, 59,300	45,650	Number of men in each tribe of Israel in Numbers 2
83	Tudors, Egyptians, Romans, Victorians	Vikings	Horrible History Series
84	Uruguay, Italy, France, Brazil	Switzerland	World Cup hosts
85	Blue, Fin, Sperm, Right	Bowhead (accept Humpback)	Largest whale species
86	-220, -101, -7, 114	302	Melting point of halogens
87	White, Yellow, Orange, Green, Blue	Brown	Belts in Judo
88	Trinidad, Mississippi, Honolulu	Lake Titicaca	Places in the Geographical Fugue
89	1, 2, 9, 64, 625	7776	n^{n-1}
90	Carrot, Bear, Granite, Henry VIII, Hastings	Any equation	Examples of areas of expertise of Gilbert and Sullivan's Modern Major General
91	Independence, Kansas River, Big Blue River, Fort Kearney	Chimney Rock	Stops in the Oregon Trail computer game
92	Emil, Warner, George, Lionel	Wallace	Winners of 'Best Actor' Oscar
93	B, C, E, G, K	M	Prime numbered letters
94	Pro, Meta, Ana	Telo	Stages of mitosis
95	1, 2, 6, 24, 120	720	Factorials
96	Egg, Planula, Polyp, Budding Polyp	Ephyra	Life cycle of a jellyfish

97	1405, 1407, 1409, 1413, 1417	1421	Ming voyages
98	Moon, Tyr, Odin, Thor	Frigga (accept Freya)	What days of the week are named after
99	Gold, Silver, Bronze, Heroic	Iron	Hesiod's ages
100	Mountain, Wind, Dark, ..., Time	Fish	Answers to riddles that Gollum asks to Bilbo