

#1 Set by Humbug

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## RULES

Although many of the clues have multiple answers, there is only one solution to the completed crossnumber. As usual, no numbers begin with 0.

One randomly selected correct answer will win £100. Three randomly selected runners up will win a Chalkdust pen. The prizes have been provided by G-Research, researchers of financial markets and investment ideas. Find out more at gresearch.com.

To enter, email **crossnumber@chalkdustmagazine.com** with the **sum of the across clues** by **22<sup>nd</sup> July 2015**. Only one entry per person will be accepted. Winners will be notified by email by 1<sup>st</sup> August 2015.

	Across		Down					
1	D4 multiplied by D18.	(10)	<b>1</b> 700 less than 3D.	(3)				
	A multiple of 101.	(3)	2 The sum of this number's digits is	(5)				
7	The difference between 10D and	(10)	equal to 16.					
	11D.		3 A Fibonacci number.	(3)				
9	A palindromic number containing	(5)	4 This is the same as another number	(5)				
	at least one 0.		in the crossnumber.					
10	Subtract 24A multiplied by 24A	(5)	5 A square number containing every	(10)				
	backwards from 100000.		digit from 0 to 9 exactly once.					
13	Subtract 8D from 35A then multi-	(5)	6 This number's first digit tells you	(10)				
	ply by 17A.		how many 0s are in this number,					
15	Multiply this by 13D to get a per-	(2)	the second digit how many 1s, the					
	fect number.		third digit how many 2s, and so on.					
	The product of two primes.	(2)	8 The lowest prime larger than 25A.	(2)				
	A triangular number.	(2)	<b>10</b> The largest prime number with 10	(10)				
	A factor of 6D.	(3)	digits.					
20	30A more than the largest number	(7)		(10)				
	which cannot be written as the sum		12 If you write a 1 at the end of this	(5)				
	of distinct fourth powers.		number then it is three times larger					
22	The sum of seven consecutive	(3)	than if you write a 1 at the start.					
	primes.	4-5	13 Multiply this by 15A to get a per-	(2)				
23	When written in Roman numer-	(2)	fect number.	<i>(</i> _\				
	als, this number is an anagram of		<b>14</b> The factorial of 17D divided by the	(7)				
~ .	XILXX.	(2)	factorial of 16A.	(0)				
24	The largest prime factor of	(2)	17 The answer to the ultimate ques-	(2)				
25	733626510400.	(2)	tion of life, the universe and every-					
	A square number.	(2)	thing.	(=)				
	The product of all the digits of 7A.	(5)	<ul><li>18 A multiple of 5.</li><li>21 The number of the D clue which</li></ul>	(5) (2)				
	A multiple of 107. Unix time at 01:29:41 (am) on 2 Jan-	(5) (5)	has the answer 91199.	(2)				
30	uary 1970.	(3)	26 The total number of vertices in all	(2)				
32	When written in a base other than	(10)	the Platonic Solids (in 3D).	(2)				
32	10, this number is 5331005655.	(10)	27 Two more than 29D.	(5)				
35	The smallest number which is one	(3)	29 The first and last digits of this	(5)				
55	more than triple its reverse.	(3)	number are equal.	(3)				
36	All but one of the digits of this	(10)	31 A multiple of 24A.	(2)				
50	number are the same.	(10)	33 Each digit of this number is a dif-	(3)				
	and the same.		ferent non-zero square number.	(0)				
			<b>34</b> A square number.	(3)				

35

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