



UNITED KINGDOM MATHEMATICS TRUST

CROSSNUMBER

- Time allowed: 20 minutes.
- Some clues can be answered without reference to any other clues. Some clues are connected so you may not be able to answer these straight away.
- *One* mark is given for each correct digit at the first time of being presented to your supervising teacher.
- There are two practice sheets containing the crossnumber clues, and one answer grid. Your final answers should be written on the answer grid.
- You may ask your teacher to mark your crossnumber at any time even if it is not complete. However, if any digit is incorrect it will be replaced with the correct digit and you will not score any marks for that digit.

<u>1</u>				<u>2</u>			<u>3</u>		<u>4</u>
			<u>5</u>			<u>6</u>			
		<u>7</u>				<u>8</u>			
<u>9</u>	<u>10</u>		<u>11</u>		<u>12</u>			<u>13</u>	
	<u>14</u>	<u>15</u>					<u>16</u>		
				<u>17</u>			<u>18</u>	<u>19</u>	
<u>20</u>			<u>21</u>			<u>22</u>		<u>23</u>	<u>24</u>
		<u>25</u>				<u>26</u>			
					<u>27</u>				
<u>28</u>				<u>29</u>			<u>30</u>		

Across

- 27 Across x 27 Down
- A sum of a square number and a cube number
- The minutes of a journey starting at 12:30 and finishing at 14:22
- 30 Across – 21 Down
- A multiple of 17
- 10 Down + 25 Across
- A multiple of 13
- An unlucky number squared plus 9000
- 27 Across minus 25 Across
- The result of subtracting 15 from 1 Across then dividing the answer by 10
- 3 Across divided by 4
- A factor of 54
- 4 Down plus 28 Across – 10
- One more than 13 Across
- The square root of 225
- 18 Across multiplied by 1.5
- A square number
- 9 Across multiplied by 9
- 4 Down ÷ 100
- 9 Across x 4 + 27 Across

Down

- 11 Across – 4 Down
- The mean (average) of 2 Across and 18 Across
- 1 Across multiplied by 4
- 21 Across ÷ 11
- This number is the same forwards and backwards (a palindrome)
- 25 Across plus 1
- $1 \times 2 \times 4 \times 8$
- The sum of its digits is 13
- The sum of all the digits in 11 Across and 21 Across
- The mean (average) of twice 27 Across and 4 x 25 Across
- A square number
- Twice 6 Down
- 7 Across x 7
- $1 \times 3 \times 5 \times 7 \times 9$
- 20 Down – 28 Across
- A cube number

<u>1</u>				<u>2</u>			<u>3</u>		<u>4</u>
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<u>9</u>	<u>10</u>		<u>11</u>		<u>12</u>			<u>13</u>	
	<u>14</u>	<u>15</u>					<u>16</u>		
				<u>17</u>			<u>18</u>	<u>19</u>	
<u>20</u>			<u>21</u>			<u>22</u>		<u>23</u>	<u>24</u>
		<u>25</u>				<u>26</u>			
					<u>27</u>				
<u>28</u>				<u>29</u>			<u>30</u>		

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Crossnumber: Answer Grid.

School Name: _____ **School Number** _____

<u>1</u>				<u>2</u>			<u>3</u>		<u>4</u>
1	1	1		1	1		1	1	1
			<u>5</u>			<u>6</u>			
1			1	1		1			1
		<u>7</u>				<u>8</u>			
1		1	1			1	1		1
<u>9</u>	<u>10</u>		<u>11</u>		<u>12</u>			<u>13</u>	
1	1		1	1	1	1		1	1
	<u>14</u>	<u>15</u>					<u>16</u>		
	1	1			1		1		
				<u>17</u>			<u>18</u>	<u>19</u>	
		1		1			1	1	
<u>20</u>			<u>21</u>			<u>22</u>		<u>23</u>	<u>24</u>
1	1		1	1	1	1		1	1
		<u>25</u>				<u>26</u>			
1		1	1			1	1		1
					<u>27</u>				
1			1		1	1			1
<u>28</u>				<u>29</u>			<u>30</u>		
1	1	1		1	1		1	1	1

Marks (8)
Marks (5)
Marks (6)
Marks (8)
Marks (4)
Marks (4)
Marks (8)
Marks (6)
Marks (5)
Marks (8)

Total (out of 62): _____