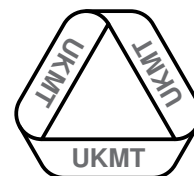


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| 1 | | 2 | | 3 | | 4 | | 5 |
| | | 6 | 7 | | | 8 | | |
| 9 | 10 | | | | 11 | | | |
| | 12 | | | 13 | | | 14 | |
| 15 | | | 16 | | | | 17 | |
| | 18 | | | | | 19 | | |
| 20 | | | | | 21 | | 22 | 23 |
| 24 | | 25 | | 26 | | 27 | | |
| | | 28 | | | |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

ACROSS

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| 1. 29 ACROSS plus 4 DOWN (3) | 17. Twice a square (2) |
| 3. The sum of the first twelve prime numbers (3) | 18. $9 \times 8 \times 7 \times (6 - 5 + 4 - 3) \times 2 + 1$ (4) |
| 6. $77 \times \frac{7 \text{ DOWN}}{2}$ (3) | 19. x , where $\frac{5 \text{ DOWN} - 2}{x} = 70 - 22 \text{ ACROSS}$ (2) |
| 8. This number is a multiple of the sum of its digits (3) | 22. A factor of 23 DOWN (2) |
| 9. The sum of the digits of this number is a factor of 10 DOWN (2) | 24. The mean of 16 DOWN and 24 ACROSS (3) |
| 12. A non-square factor of 16 DOWN (2) | 26. The largest three-digit number that is the sum of a Fibonacci number and a square (3) |
| 13. A palindromic number (4) | 28. The sum of its digits is 8 (3) |
| 15. 3 DOWN plus five (2) | 29. y where $1 : 20 = 2 \text{ DOWN} : y$ (3) |



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| 1 | | 2 | | 3 | | 4 | | 5 |
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| 24 | | 25 | | 26 | | 27 | | |
| | | 28 | | | | 29 | | |

Down

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| <p>1. The product of the first five odd numbers (3)</p> <p>2. x where $10 \text{ DOWN} : x = 72 : 1$ (2)</p> <p>3. A factor of 12 ACROSS (2)</p> <p>4. An angle, in degrees, of an isosceles triangle that contains a 53° angle (2)</p> <p>5. The factor of 26 ACROSS whose digits add to 8 (3)</p> <p>7. Twice 6 ACROSS $\div 77$ (2)</p> <p>10. A multiple of the sum of the digits of 9 ACROSS (4)</p> <p>11. $\frac{14 \text{ DOWN} + 18 \text{ ACROSS}}{6}$ (3)</p> | <p>14. $(3 + 1 \times 2)^5$ (4)</p> <p>16. A power of 2 (3)</p> <p>20. A prime number of the form $n^n + 1$ (3)</p> <p>21. The mean of 2 DOWN and 12 ACROSS (2)</p> <p>23. A multiple of 22 ACROSS (3)</p> <p>25. x, where $x + 79 = 5 \text{ DOWN} - 10x$ (2)</p> <p>26. A multiple of 5 that is the sum of two different squares (2)</p> <p>27. The remainder when 26 ACROSS is divided by 103 (2)</p> |
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TEAM NUMBER

SCHOOL NAME

| | | | | | | | | | | Row | TOTALS | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------|----------------------|
| 1 | <input type="checkbox"/> | <input type="checkbox"/> | 2 | <input type="checkbox"/> | | 3 | <input type="checkbox"/> | <input type="checkbox"/> | 4 | <input type="checkbox"/> | | 5 | <input type="checkbox"/> | /7 | <input type="text"/> |
| <input type="checkbox"/> | | 6 | <input type="checkbox"/> | 7 | <input type="checkbox"/> | <input type="checkbox"/> | | 8 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | /7 | <input type="text"/> | |
| 9 | <input type="checkbox"/> | 10 | <input type="checkbox"/> | | <input type="checkbox"/> | | 11 | <input type="checkbox"/> | | | | <input type="checkbox"/> | /5 | <input type="text"/> | |
| | 12 | <input type="checkbox"/> | <input type="checkbox"/> | | 13 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 14 | <input type="checkbox"/> | | | /6 | <input type="text"/> | |
| 15 | <input type="checkbox"/> | <input type="checkbox"/> | | 16 | <input type="checkbox"/> | | <input type="checkbox"/> | | 17 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | /6 | <input type="text"/> | |
| | 18 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | 19 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | /6 | <input type="text"/> | |
| 20 | <input type="checkbox"/> | | | <input type="checkbox"/> | | 21 | <input type="checkbox"/> | | 22 | <input type="checkbox"/> | 23 | <input type="checkbox"/> | /5 | <input type="text"/> | |
| 24 | <input type="checkbox"/> | <input type="checkbox"/> | 25 | <input type="checkbox"/> | | 26 | <input type="checkbox"/> | <input type="checkbox"/> | 27 | <input type="checkbox"/> | | <input type="checkbox"/> | /7 | <input type="text"/> | |
| <input type="checkbox"/> | | 28 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | 29 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | /7 | <input type="text"/> | |

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| <p>Correct digit: place a tick in the dotted circle.</p> <p>Incorrect digit: cross out the answer, write in the correct digit, and place a cross in the dotted circle.</p> <p>Row totals: enter the number of ticks in each row.</p> | <p>FINAL SCORE /56 <input type="text"/></p> |
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