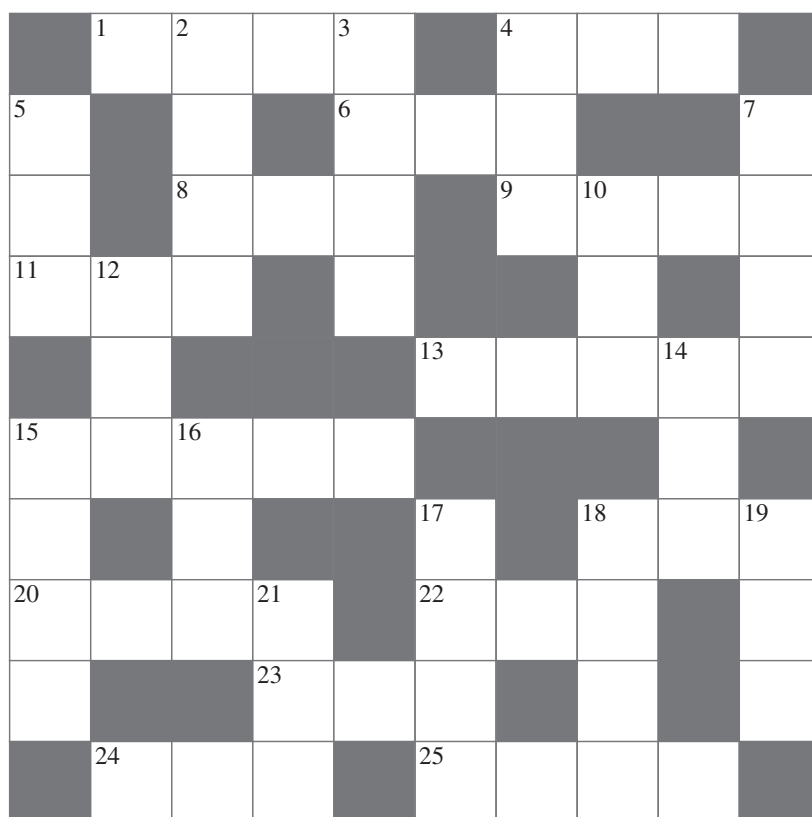
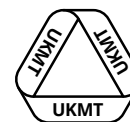


ACROSS


- | | |
|--|---|
| 1. A Fibonacci number (4) | 15. The product of 10 and the mean of 1 ACROSS and 18 DOWN (5) |
| 4. A multiple of the positive solution of $m^2 - 120m - 21 \text{ DOWN} = 0$ (3) | 18. $(25 - \sqrt{14})(25 + \sqrt{14})$ (3) |
| 6. A cube (3) | 20. $(6 \text{ ACROSS})^{\frac{4}{3}}$ (4) |
| 8. A multiple of 11 (3) | 22. The number of degrees in each internal angle of a regular polygon with $\frac{2}{3} \times 19 \text{ DOWN}$ sides (3) |
| 9. $3 \text{ DOWN} + 12 \text{ DOWN}$ (4) | 23. $6x + 7y$ where $x : y = 21 \text{ DOWN} : 24 \text{ ACROSS}$ is in its simplest form (3) |
| 11. The smallest positive integer that is divisible by 1, 2, 3, 4, 5, 6, 7, 8, 10, 35, and 105 (3) | 24. The n^{th} triangular number, where $n = \sqrt{21 \text{ DOWN}}$ (3) |
| 13. The product of 18 DOWN and $\sqrt{\sqrt{21 \text{ DOWN}}}$ (5) | 25. 18 DOWN minus 12 DOWN (4) |












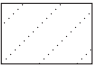























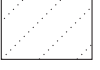








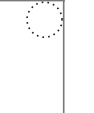


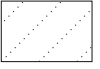











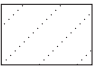









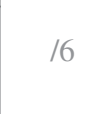
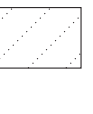
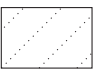











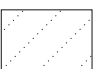











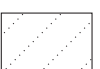











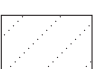











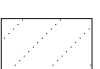


Down

- | | |
|--|--|
| <p>2. The smallest positive integer that is divisible by 1, 2, 3, 4, 5, 6, 7, 9, 10, 14 and 63 (4)</p> <p>3. The mean of 20 ACROSS and 2 DOWN (4)</p> <p>4. $(24 + \sqrt{15})(24 - \sqrt{15})$ (3)</p> <p>5. The number of degrees in each internal angle of a regular polygon with 19 DOWN sides (3)</p> <p>7. A factor of 18 DOWN that is smaller than 1 ACROSS (4)</p> <p>10. A multiple of 11 (3)</p> | <p>12. $18x - 4y$ where $x : y = 4$ ACROSS : 19 DOWN is in its simplest form (3)</p> <p>14. A triangular number (3)</p> <p>15. The sum of 23 ACROSS and triple 9 ACROSS (4)</p> <p>16. A cube (3)</p> <p>17. A multiple of the positive solution of $m^2 - 30m - 6$ ACROSS = 0 (4)</p> <p>18. A Fibonacci number (4)</p> <p>19. See 5 DOWN (3)</p> <p>21. n^{n-1} where n is a positive integer (3)</p> |
|--|--|

TEAM NUMBER 

SCHOOL NAME 

										Row TOTALS	
	1 	2 		3 		4 					/7 
5 				6 					7 		/6 
		8 				9 	10 				/8 
11 	12 										/6 
				13 				14 			/6 
15 		16 									/6 
					17 		18 		19 		/6 
20 			21 		22 						/8 
			23 								/6 
	24 				25 						/7 

Marking Instructions—a reminder

- Pairs may only communicate through the teacher, and only to request that the other pair works on a particular clue.
- When a pair enters an answer in the Answer Grid, the teacher checks each digit of the answer:
 - if it is correct, tick it and award one mark;
 - if it is wrong, cross it out and enter the correct digit;
 - the correct answer is then shown to both pairs so that they are up-to-date.
- A pair may enter just one digit if they wish, rather than a complete answer.
- A pair may sacrifice a square, by guessing, if they wish.

FINAL SCORE /66 