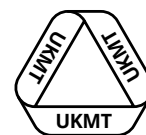


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7	8					9		
			10		11			
12							13	
		14		15				
16						17		18
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20						21		

**ACROSS**

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|--|--|
| <p>1. <math>x</math>, where<br/> <math display="block">\frac{19 \text{ ACROSS}}{17 \text{ DOWN} - x} = 503 \times 12 \text{ ACROSS}</math>                 (3)</p> <p>3. 10 DOWN minus a square (3)</p> <p>5. The product of 337 and the 21st prime (5)</p> <p>7. A Fibonacci number (3)</p> <p>9. <math>x</math>, where 11 DOWN <math>- x</math> is a cube (3)</p> <p>10. A palindromic cube (4)</p> <p>12. The number of digits in <math>4^{11} \times 5 \times 125^7</math> (2)</p> | <p>13. A cube (2)</p> <p>14. A multiple of 7 (4)</p> <p>16. The mean of 17 DOWN and 18 DOWN (3)</p> <p>17. 21 ACROSS minus <math>\sqrt{17 \text{ DOWN}}</math> (3)</p> <p>19. The number of degrees in an exterior angle of a 30-sided regular polygon plus the product of 14 ACROSS and <math>(8 \text{ DOWN} - 2 \text{ DOWN})</math> (5)</p> <p>20. The sum of the digits of this number equals the sum of the digits of 6 DOWN (3)</p> <p>21. <math>\sqrt[3]{8 \text{ DOWN}} \times 13 \text{ ACROSS}</math> (3)</p> |
|--|--|



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20						21		

**Down**

- |  |  |
|--|--|
| <p>1. The number of degrees of an interior angle of a regular polygon with (8 DOWN – 2 DOWN) sides (3)</p> <p>2. The product of two consecutive primes (3)</p> <p>3. The remainder when 14 ACROSS is divided by 1748 (4)</p> <p>4. The sum of 13 ACROSS plus the product of 7 ACROSS and 100 (5)</p> <p>6. <math>x</math>, where<br/> <math display="block">\frac{16 \text{ ACROSS}}{x - 1 \text{ ACROSS}} = \frac{8 \text{ DOWN} - 7 \text{ ACROSS}}{110}</math> (3)</p> <p>8. A palindromic cube (3)</p> | <p>10. The product of the digits of 13 DOWN (3)</p> <p>11. A Fibonacci number (3)</p> <p>12. 12 ACROSS plus the product of 100 and the mean of 9 ACROSS, 13 DOWN and 15 DOWN (5)</p> <p>13. <math>10 \text{ ACROSS} \div 17 \text{ DOWN} \times 13 \text{ ACROSS}</math> (3)</p> <p>14. A cube and a power of 2 (4)</p> <p>15. <math>\sqrt[3]{10 \text{ ACROSS}} \times</math> the mean of 12 ACROSS and 13 ACROSS (3)</p> <p>17. The number of digits in <math>16^{30} \times 125^{40}</math> (3)</p> <p>18. The sum of 2 DOWN, 7 ACROSS and 8 DOWN (3)</p> |
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TEAM NUMBER

SCHOOL NAME

**Students:** please write digits in black ink.  
**Teacher:** please mark and insert correct digits in red ink.

1	<input type="checkbox"/>	2	<input type="checkbox"/>			3	<input type="checkbox"/>	4	<input type="checkbox"/>	Row TOTALS	<input type="text"/>
	<input type="checkbox"/>	5	<input type="checkbox"/>	6	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	/6	<input type="text"/>
7	<input type="checkbox"/>	8	<input type="checkbox"/>		<input type="checkbox"/>	9	<input type="checkbox"/>		<input type="checkbox"/>	/7	<input type="text"/>
	<input type="checkbox"/>		<input type="checkbox"/>	10	<input type="checkbox"/>	11	<input type="checkbox"/>		<input type="checkbox"/>	/7	<input type="text"/>
12	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	13	<input type="checkbox"/>	/6	<input type="text"/>
	<input type="checkbox"/>	14	<input type="checkbox"/>	15	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	/6	<input type="text"/>
16	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	17	<input type="checkbox"/>	18	<input type="checkbox"/>	/6	<input type="text"/>
	<input type="checkbox"/>	19	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	/7	<input type="text"/>
20	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	21	<input type="checkbox"/>		<input type="checkbox"/>	/7	<input type="text"/>

**Correct digit:** place a tick in the dotted circle.  
**Incorrect digit:** cross out the answer, write in the correct digit, and place a cross in the dotted circle.  
**Row totals:** enter the number of ticks in each row.

FINAL SCORE /58