

United Kingdom Mathematics Trust

## Primary Team Maths Resources 2018

## SUPERVISOR'S BOOKLET

Please ensure that students do not have access to this booklet, and take care to hold it so that answers cannot be seen.

## Crossnumber



## Across

1. Lowest common multiple (LCM) of 15 and 33
(3)
2. The square of one seventh of 6 Down (3)
3. 14 Down + the square root of 14 Down (2)
4. A multiple of 3 and 4
5. The number of hours in 840 minutes (2)
6. A number less than 6 Down and greater than 14 Down
7. Half of 8 Across
8. The nearest prime number to 15 Across
9. The average of 1 Across and 17 Down (3)
10. 10 Down -4 times 1 Across

## Down

2. 10 Down -20 Across +9
3. 3 times 17 Down -14 Down
4. Highest common factor (HCF) of 8 Across and 4 Down
5. 7 times 14
6. 6 Down +12 Across
7. The sum of the digits is 27
8. 1 Across +15 Down
9. (19 Across - 15 Down) squared
10. The difference between 17 Down and 6 Down
11. A cube number whose digits add to 10
12. Sum of the digits in the bottom row

|  | 1 | 6 | 5 |  | 1 | ${ }^{4} 9$ | 6 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  | 6 |  |  |  | 4 |  | 9 |
| 2 |  | 9 | 0 |  | 4 | 8 |  | 8 |
|  | 1 |  |  | ${ }^{10} 9$ |  |  | ${ }^{11} 4$ |  |
|  | ${ }^{2} 1$ | 4 |  | 9 |  | 9 | 1 |  |
|  | 2 |  |  | 9 |  |  | 0 |  |
| ${ }^{4} 8$ |  | ${ }_{5} 2$ | 4 |  | ${ }^{16}$ | 3 |  | ${ }^{18} 2$ |
| 1 |  | 4 |  |  |  | 4 |  | 6 |
|  | 2 | 5 | 4 |  | ${ }^{20} 3$ | 3 | 9 |  |



On the response sheet:
Award 4 marks for a correct answer.
Circle the mark awarded for each question and cross out the other .

Team number $\square$ School name $\qquad$

| A1 | 8 and 28 |  |  | A6 | 86 |  |  | A11 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | 140 |  |  |
|  |  | 0 | 2 |  | $\mathrm{cm}^{2}$ | 0 | 2 |  |  | 0 | 2 |
| B1 | 22 |  |  |  | B6 | 0.86 |  |  | B11 | £34.90 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 0 | 2 | 0 |  |  | 2 | 0 |  |  | 2 |
| A2 |  |  |  | A7 |  |  |  | A12 | $£ 74.52$ |  |  |
|  | 110 |  |  |  | 8102 |  |  |  |  |  |  |
|  |  | 0 | 2 |  |  | 0 | 2 |  |  | 0 | 2 |
| B2 |  |  |  | B7 |  |  |  | B12 | 1,7 and 10 |  |  |
|  | £1.08 |  |  |  | 8 |  |  |  |  |  |  |
|  |  | 0 | 2 |  |  | 0 | 2 |  |  | 0 | 2 |
| A3 |  |  |  | A8 |  |  |  | A13 | $6 \frac{1}{2}$ |  |  |
|  | 23 |  |  |  | 140 |  |  |  |  |  |  |
|  | units | 0 | 2 |  | g | 0 | 2 |  |  | 0 | 2 |
| B3 |  |  |  | B8 |  |  |  | B13 |  |  |  |
|  | 101 |  |  |  | 15 |  |  |  | 70 |  |  |
|  |  | 0 | 2 |  |  | 0 | 2 |  | square units | 0 | 2 |
| A4 |  |  |  | A9 |  |  |  | A14 | $\frac{4}{7}$ |  |  |
|  | 1 and 0 |  |  |  | 6 |  |  |  |  |  |  |
|  |  | 0 | 2 |  | C | 0 |  |  |  | 0 | 2 |
| B4 |  |  |  | B9 |  |  |  | B14 | $£ 117.80$ |  |  |
|  | 2018 |  |  |  | 150 |  |  |  |  |  |  |
|  |  | 0 | 2 |  |  | 0 | 2 |  |  | 0 | 2 |
| A5 |  |  |  | A10 |  |  |  | A15 | 8 |  |  |
|  | 95 |  |  |  | £79.20 |  |  |  |  |  |  |
|  | million | 0 | 2 |  |  |  | (2) |  |  | 0 | 2 |
| B5 |  |  |  | B10 |  |  |  | B15 |  |  |  |
|  | 9 and 27 |  |  |  | 8 |  |  |  | 7 |  |  |
|  |  | 0 | 2 |  |  |  | 2 |  | days | 0 | 2 |

[^0]| A1 | B1 |  | C1 |  | D1 |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

On the response sheet: Circle the mark awarded for each question and cross out the others. At the end of the round, either circle the bonus mark or cross it out.

The flowchart explains the order in which questions should be marked.



Team number $\square$ School name $\qquad$
There may be a variety of ways of solving these problems so please check answers carefully. A possible solution for each question is given below.


| 1  <br>   <br>  7 <br>   <br> 2  | 6 | 11 | 16 |
| :---: | :---: | :---: | :---: |
|  | 20 | 7 | 2331 |
|  | 7 | 12 | 17 |
| PLAINTEXT | 31 degrees | 120km | 23 |
| $\begin{array}{ll}3 & \\ \\ & \\ & 4\end{array}$ | 8 | 13 | 18 |
|  | £2 | $\frac{1}{5}$ | 4 hours |
| $\begin{array}{ll}4 & \\ \\ & \\ & 4\end{array}$ | 9 | 14 | 19 |
|  | 105 degrees | 19 | 1332 |
|  | 10 | 15 | 20 |
|  | 31 | 10 hours | 59 |

On the response sheet:
Award 3 marks for a correct answer.
Circle the mark awarded for each question and cross out the other.

## BACK

PAGE


[^0]:    Correct answers score 2 points: circle 2 or 0 for each question and cross out the other number.
    At the end of the round, draw a line under the last question attempted.

