

SUPERVISOR

STATION 1

0.2 or $\frac{1}{5}$ or equivalent

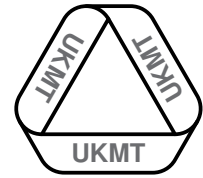
Ensure that the worksheet and any scrap paper are cleared away before the next team arrives.

**MARKS
TO AWARD**

6 correct solution
0 otherwise

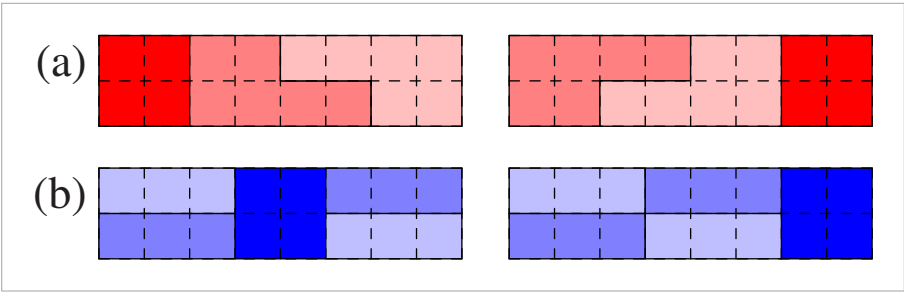
RESOURCES

Question paper
Worksheet
Scrap paper



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STATION 2



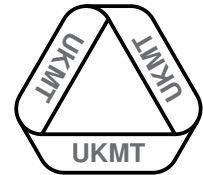
Please check carefully as there are other solutions as well as those shown above.

Three marks to be awarded in each part for the correct presentation of an 8×2 rectangle with no gaps or overlaps and judged by eye. *Poor cutting of the pieces should not be penalised.*

Ensure any evidence of each team's solutions and any scrap paper are cleared away before the next team arrives.

MARKS TO AWARD	6 correct solution
	3 one part correct
	0 otherwise

- RESOURCES**
- Question paper
 - Red and blue square grids on card
 - Scissors
 - Practice grids on paper



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STATION 3

09:55

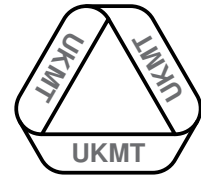
Ensure that the worksheet and any scrap paper are cleared away before the next team arrives.

**MARKS
TO AWARD**

6 correct solution
0 otherwise

RESOURCES

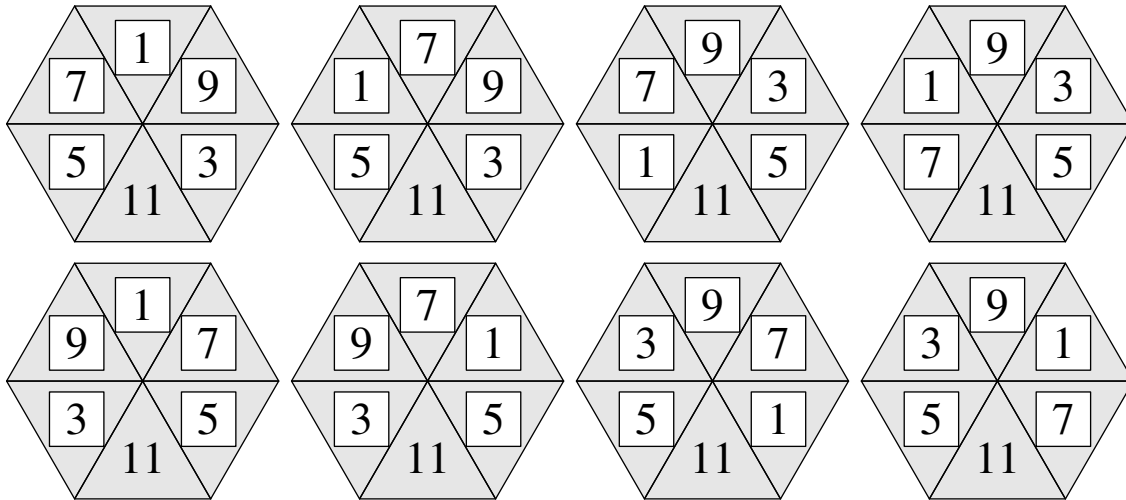
Question paper
Worksheet
Scrap paper



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STATION 4

Two of these solutions - but not two from the same column.



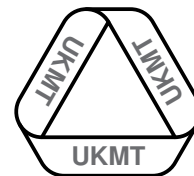
Ensure any evidence of each team's solutions and any scrap paper are cleared away before the next team arrives.

MARKS TO AWARD

- 6** correct solution
- 3** one part correct
- 0** otherwise

RESOURCES

- Question paper
- Two laminated hexagons
- Two sets of laminated number cards

**SUPERVISOR****STATION 5**

- (a) 169 or 13^2 , 196 or 14^2
(b) 4 or 2^2 , 361 or 19^2
(c) 125 or 5^3 , 216 or 6^3 , 25 or 5^2

Answers (a) and (b) are interchangeable. Accept answers such as 19^2 or 5^3 , but do not accept answers such as 19 or 5.

The numbers in each of the three parts can be given in any order.

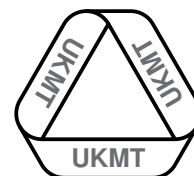
Ensure that the worksheet and any scrap paper used are cleared away before the next team arrives.

**MARKS
TO AWARD**

- 6** correct solution
4 two parts correct
2 one part correct
0 otherwise

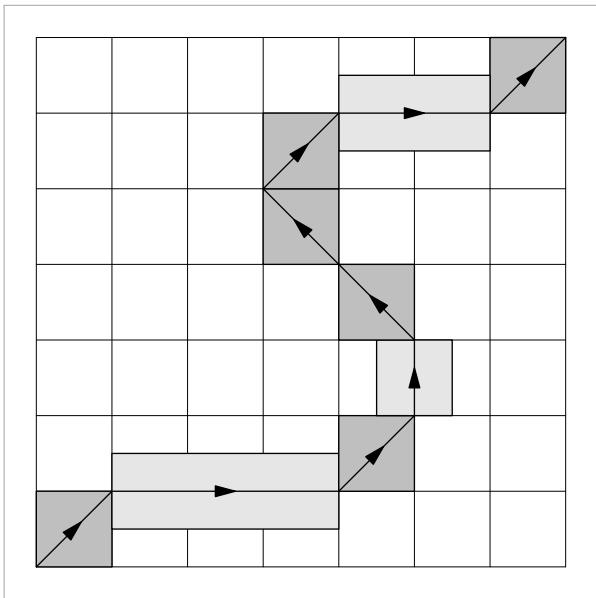
RESOURCES

Question paper
Worksheet
Scrap paper



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STATION 6

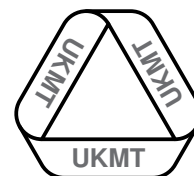


Please check carefully as there are other solutions as well as that shown above.

Ensure that all nine cards are moved off the grid before the next team arrives.

<p>MARKS TO AWARD</p>	<p>6 correct solution 0 otherwise</p>
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<p>RESOURCES Question paper (4 copies) Nine laminated cards (4 sets)</p>

**SUPERVISOR****STATION 7**

(a) $16 \text{ cm} \times 3 \text{ cm}$ (b) $a = 8, b = 3$

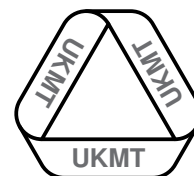
Ensure any evidence of each team's solutions and any scrap paper are cleared away before the next team arrives.

**MARKS
TO AWARD**

6 correct solution
3 one part correct
0 otherwise

RESOURCES

Question paper
Worksheet
Scrap paper



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STATION 8

36

Ensure any evidence of each team's solutions and any scrap paper are cleared away before the next team arrives.

**MARKS
TO AWARD**

6 correct solution
0 otherwise

RESOURCES

Question paper
Worksheet
Scrap paper