



Speed Round

Station 1 Supervisors only

Here is one possible solution.

Note that the 4 of Spades and the 6 of Hearts can be interchanged.



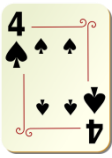

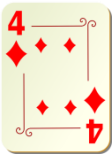

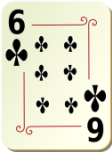
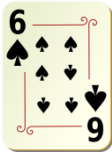
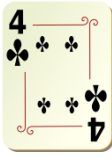

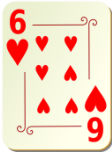
= ?



= ?



= ?

Awarding marks

- 5 marks for placing 4 of Clubs, 6 of Diamonds and 4 of Hearts
- 10 marks for placing Queen of Diamonds and 6 of Spades
- 5 marks for placing the 4 of Diamonds and the 6 of Clubs
- 10 marks for realising that the 6 of Hearts and the 4 of Spades must be in the corners.



Speed Round

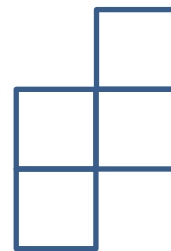
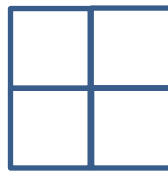
Station 2 Supervisors only

Ensure sufficient squared paper is available.

Solution

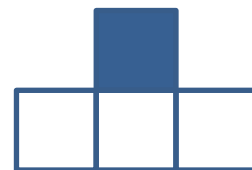
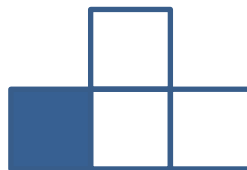
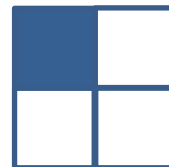
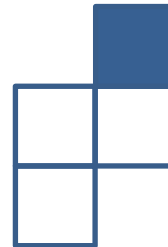
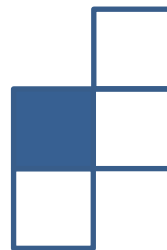
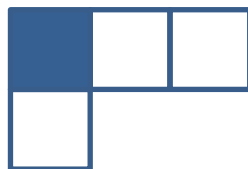
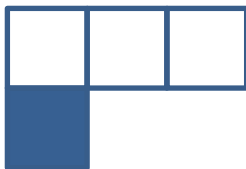
Task 1

There are three others – award 10 marks for all three
(3 marks for one, six marks for two)



Task 2

There are ten others – award 2 marks for each

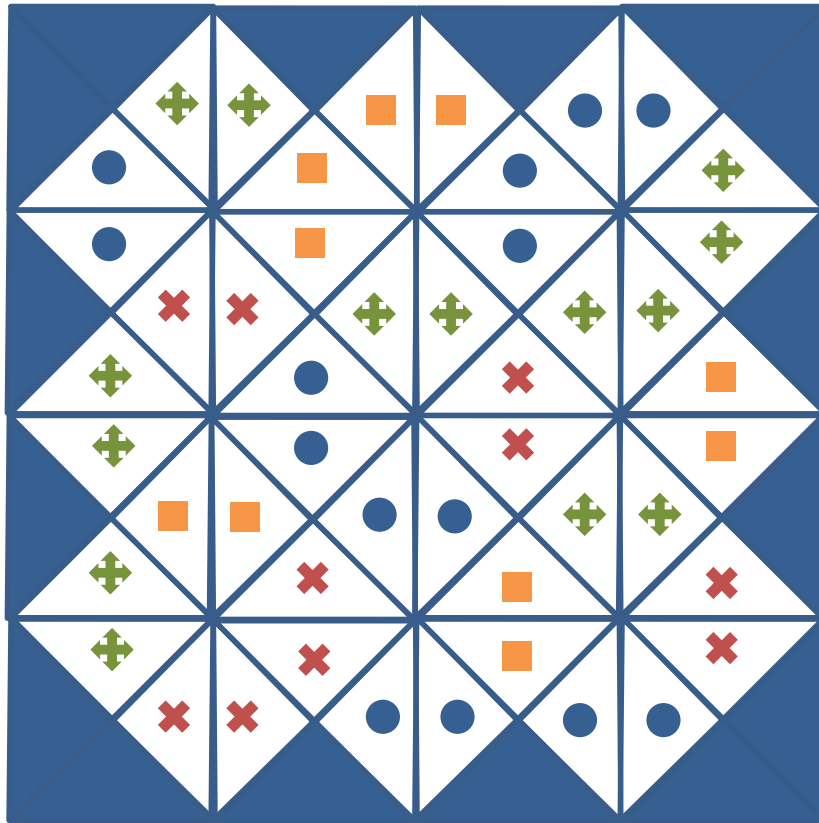




Speed Round

Station 3 Supervisors only

Solution



Awarding marks

- Award 10 marks for any correct horizontal or vertical line
- Award a further 10 marks for any second line
- Award a further 10 marks for a completed square (30 marks max)

Note: Accept any rotation of the above solution



Speed Round

Station 4 Supervisors only

Solution

Question	Answer		Question	Answer
1	161		6	200
2	10		7	6
3	144		8	17
4	403		9	3
5	4836		10	7560

Awarding marks

- Give three marks for each correct answer

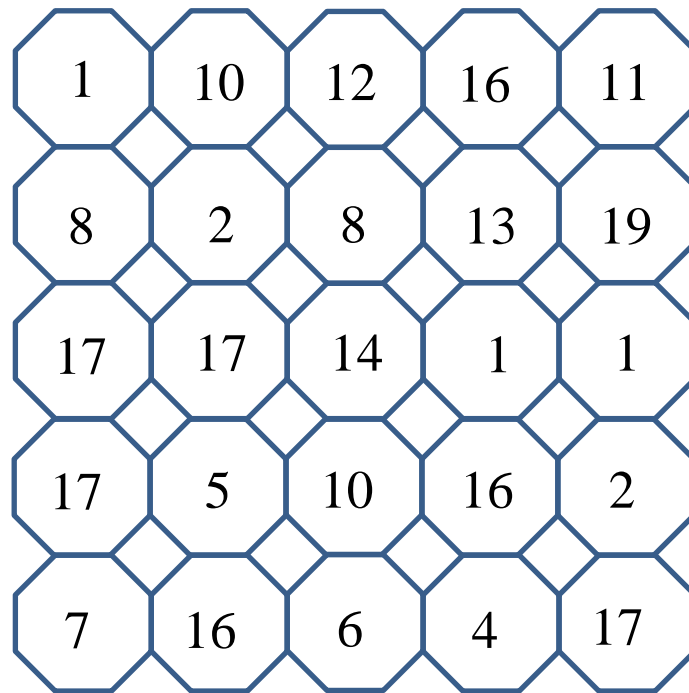
If an incorrect answer is offered, tell the contestants that the answer is wrong.



Speed Round

Station 5 Supervisors only

Solution



Awarding marks

- Award 5 marks for placing 8 and 2 in the second top row
- Award a further 10 marks for completing any other line
- Award a further 5 marks for the central 14
- Award a further 10 marks for the complete grid (Max 30 marks)

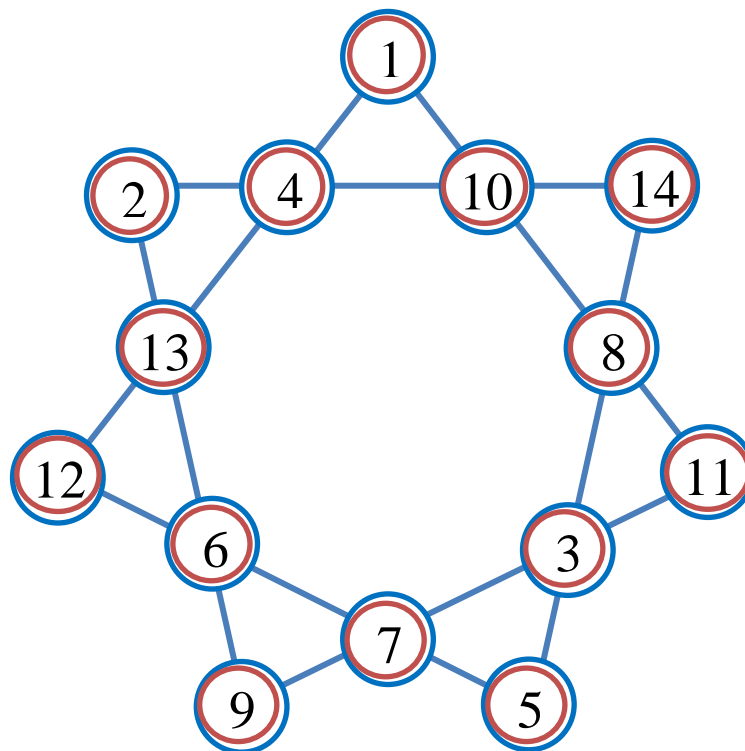


Speed Round

Station 6 Supervisors only

Solution

Not including rotations or reflections, there are 72 unique solutions to this puzzle. Here is one of them.



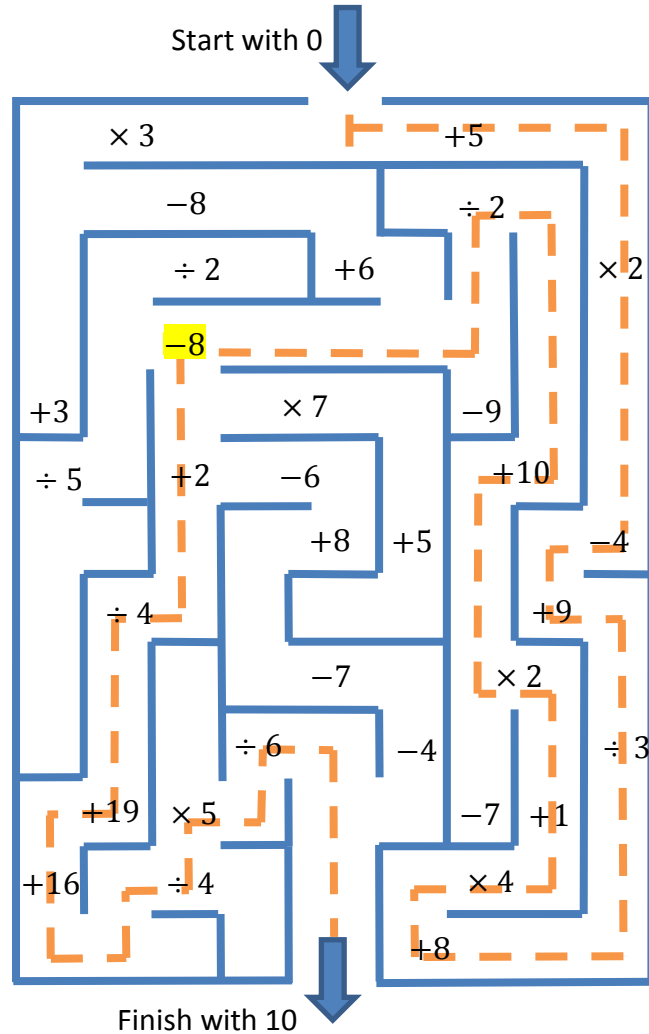
Awarding marks

- Award 10 marks for 4 lines totalling 30
- Award 20 marks for 6 lines totalling 30
- Award 30 marks for a complete solution (Max 30 marks)



Station 7

Solution



Awarding marks

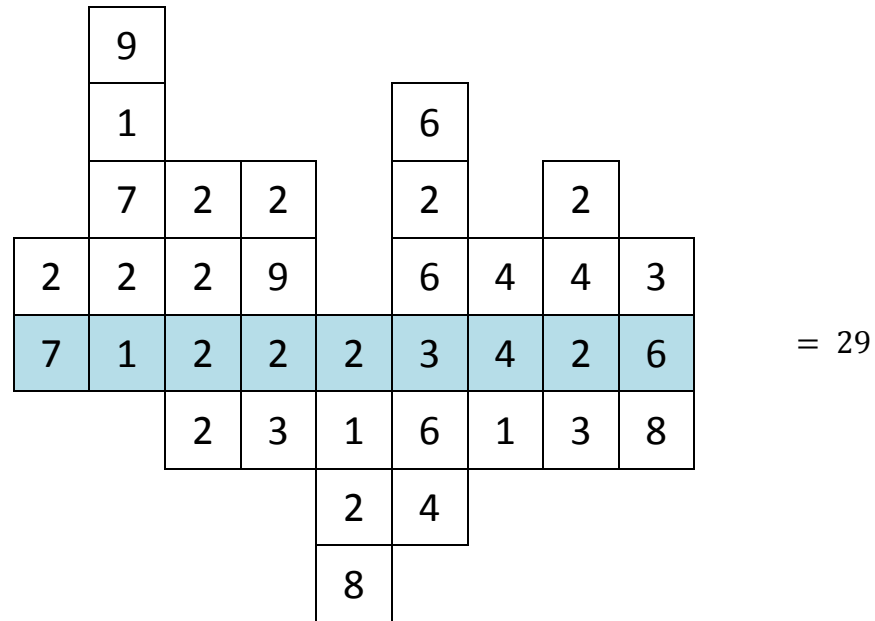
- Give 10 marks for any attempt
- Give 20 marks for a correct route leading to the -8
- Give 30 marks for a perfect solution



Speed Round

Station 8 Supervisors only

Solution



Awarding marks

- Award 3 marks for each correct calculation
- Award a total of 30 marks for a complete solution

Note that any placement of the 3 and 4 digit solutions will lead to a horizontal total of 29.