

Self-assessment sheet

For pupils

Think about the problem you have just been working on and discuss each of the following questions with a partner before writing down what you think you have learnt.

Independence

Did you manage to work through to a solution even though you might not have had a clear idea to start with?

Did you need help from someone who had some ideas about what to do?

Visualising

Did you find yourself trying to imagine or visualise what was happening in order to get started with the problem? Try to explain how this helped.

Did you find yourself trying to imagine what would happen next or what would happen if you did something before you did it? Can you give an example?

Did you ever decide not to do something because you could 'see' it would not work?

Did you use any of your visualisations to help explain something to someone else?

Evaluation

If you look back on the problem can you see other ways that you could have tackled it which may have been more effective and elegant?

New mathematics

What new mathematics have you learned by doing this problem?

Communicating and justifying

Were you able to convince someone else that your solution was correct?

Curiosity

Can you give an example of anything in the question that has fired your interest enough to look at ideas not included in the question itself?

Have you thought of any follow-up problems that you could think about if you have time?