



Ask these questions to help you problem solve

How can you interpret?

What are you being asked to find out, demonstrate or prove?
 What information is helpful?
 What information is not useful?
 What additional information would be useful?

In what ways can you model and plan?

Do you have an idea?
 What could you try?
 Have you done a problem like this one before?
 How could you test your idea?
 How might you start?
 Can you represent the problem as a picture or by using equipment?
 Can you represent the information numerically or symbolically?
 What questions could you ask (to find that out)?
 What information could you put in a diagram to support your thinking?
 What strategies have you used in the past when you have been stuck?
 Speak to a peer. Ask them to show you what they are trying.

In what ways can you solve and check?

How can you calculate that?
 What processes could you try?
 Does that seem right to you?

How can you check your answer?
 Do other people think that too?

Reasoning

In what ways can you prove your ideas?
 In what ways can you communicate your thinking?
 What can you infer?
 In what ways can your thinking be generalised?

Understanding

What patterns/connections can you see?
 Can you represent or calculate in different ways?

Fluency

What can you recall?
 What maths' ideas can you choose to use?

Reflect

If the sharing is happening part-way through the problem solving process:

- Would you like to change your mind and try something different?

If the sharing is happening at the end of the problem solving process:

- Would you use a different strategy next time?
- How efficient was this strategy?
- How reliable was this strategy?
- How elegant was the strategy?
- Which was easiest for you to understand?
- What did you like about...?
- What would you do differently now?
- How reasonable is your answer?
- Were you expecting an answer in that range?