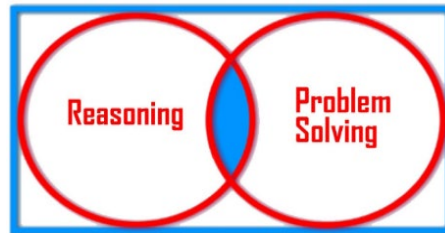


GCSE Mathematics (Grade 9-1)

Problem Solving – Sample 4

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fluidmaths.co.uk

{Aimed at students working towards grade 7 or 6}

The grades and marks shown are for guidance purposes only

Strategies to help you in Mathematical Problem Solving

- Read the question carefully
- Sketch a diagram where applicable
- Take note of key information
- Write down any formulae you may need
- Tackle the problem in bite size rather than as a whole
- Concentrate on the parts of the problem that make sense to you and try to solve those first
- Collaborate with a partner and share ideas
- Use a dictionary to find the meaning of any confusing words
- Check that your answers make sense in the context of the question

Some Useful Formulae

$$\text{Quadratic Formula: } x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$\text{Compound Interest Formula: Final Amount} = \text{Initial Amount} \times \left(1 + \frac{r}{100}\right)^n$$

$$\text{Area of a Triangle} = \frac{1}{2}ab \times \sin C$$

