



FluidMaths

GCSE Mathematics (Grade 9-1)

Problem Solving

Simultaneous Equations Set 1

Worded Questions

The marks shown are for guidance purposes only

When not specified, round all non-terminating decimals during your calculations to 3 significant figures

Some useful strategies in 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 part of the problem you understand and start from there
- 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

Simultaneous Equations Set 1 Worded Questions

<p>1</p>	<p>a and b are integers The sum of a and b is 17 The difference between a and b is 25 Calculate the values of a and b [4marks]</p>
<p>2</p>	<p>x and y are positive whole numbers The difference between x and y is 80 The sum of x and y is 130 Find the values of x and y [4marks]</p>
<p>3</p>	<p>6 cups and 7 plates cost £13.70 3 cups and 5 plates cost £8.68 Calculate the cost of 2 cups? [5marks]</p>
<p>4</p>	<p>6 apples and 12 eggs cost £8.40 It cost the same amount to buy 25 apples as 40 eggs Calculate the cost of 1 apple and 1 egg. Give your answers to 2 decimal places. [5marks]</p>
<p>5</p>	<p>115 tickets were sold at a concert An adult's ticket costs £15.00 A child's ticket costs 60% of an adult's ticket. A total of £1395 was raised from ticket sales. Calculate the number of adult tickets sold at the concert? [5marks]</p>
<p>6</p>	<p>Ben has more money than Ryan If Ben gave Ryan £20, they will both have the same amount. If Ryan gave Ben £22, Ben would have twice as much as Ryan. How much do Ryan and Ben have in total? [5marks]</p>