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**SMART EXAM RESOURCES**  
**CAMBRIDGE LOWER SECONDARY**  
**STAGE 7 TOPIC QUESTIONS**  
**MATHS**  
**UNITARY METHOD SET-1**

The exchange rate between pounds (£) and dollars (\$) is £4 = \$5

Tick (✓) to show if each of these statements about pounds and dollars is true or false.

	<b>True</b>	<b>False</b>
£8 = \$9	<input type="checkbox"/>	<input type="checkbox"/>
£16 = \$20	<input type="checkbox"/>	<input type="checkbox"/>
£26 = \$32.50	<input type="checkbox"/>	<input type="checkbox"/>

[1]

## MARK SCHEME

	True	False	1		All <b>three</b> answers correct for the mark.  Accept any clear indication.
£8 = \$9	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
£16 = \$20	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
£26 = \$32.50	<input checked="" type="checkbox"/>	<input type="checkbox"/>			

Anastasia changes \$450 into euros (€).

The exchange rate is \$100 = €12

Calculate how many euros she receives.

€ ..... [2]

## MARK SCHEME

(€) 504	2	Award 1 mark for $450 \times 112 (\div 100)$ or equivalent or for any equivalent exchange rate, e.g. (\$) $1 = (\text{€})1.12$ (\$) $50 = (\text{€})56$	1 mark implied by 50 400
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Jamila has a rectangular piece of garden measuring 1 m by 1.5 m.  
She wants to cover it with square slabs that are 0.5 m along each side.  
One slab costs \$2.35

Work out the total cost of the slabs for this piece of garden.

\$ ..... [3]

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## MARK SCHEME

Mark	Answer	Further Information
3	\$14.10	<p>Award 2 marks for (<i>their</i> 6 slabs) <math>\times</math> \$2.35 correctly calculated  <b>or</b>  for 6 <math>\times</math> \$2.35 plus incorrect answer.</p> <p>Award 1 mark for (<i>their</i> 6 slabs) <math>\times</math> \$2.35 incorrectly calculated  <b>or</b>  6 seen.</p>
<b>3</b>		

4kg of onions costs \$3.40

Find the cost of 3 kg of these onions.

\$ ..... [1]

(\$) 2.55	1
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- 21** Hassan has a roll of cloth 4.7 m long.  
He cuts 4 pieces from this roll, each with a length of 0.32 m.

Work out the length of cloth left on the roll.

..... m [2]

## MARK SCHEME

3.42 (m)	2	Award 1 mark for 1.28 <b>or</b> for 342 (cm) <b>or</b> for 4.7 – <i>their</i> ( $4 \times 0.32$ ) correctly evaluated.	
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Samira has 2.8 litres of lemonade.

She pours an equal amount of this lemonade into 5 cups.

She has 1.56 litres of lemonade remaining.

Work out the amount of lemonade in each cup.

Give your answer in litres.

..... l [3]

## MARK SCHEME

0.248 (l)	3	<p>Award 1 mark for 1.24</p> <p><b>and</b></p> <p>Award 1 mark for <math>1.24 \div 5</math> or <i>their</i> <math>1.24 \div 5</math></p>	<p>For 1 mark, accept equivalent, e.g. 1240 ml</p> <p>For 1 mark, accept equivalent, e.g. <math>1240 \div 5 \div 1000</math></p> <p>Do <b>not</b> accept <i>their</i> <math>1.24 = 1.56</math></p>
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