

**LO: To solve algebra problems involving money**

Here is today's link:

**Hints:**

<b>Use the formula in words to calculate each cost. For each question there is one with the method ready for you to answer and one to do independently.</b>	
<b>1</b>	<p>The cost of renting out a carpet cleaner is a one-off payment of £35 and then a daily hire cost of £12.</p>  <p>I could write this as <math>(£12 \times \text{number of days}) + £35</math>.</p>
<b>Finish this one off by completing the calculations:</b>	<b>Answer this one independently:</b>
<b>1a) How much would it cost me to hire the carpet cleaner for 4 days?</b>	<b>1b) How much would it cost me to hire the carpet cleaner for a week?</b>
$£12 \times 4 \text{ days} = \underline{\quad} + £35 =$	
<b>2</b>	<p>The cost of going on a pony- trekking day is £28 upfront and then £5 for every hour of horse riding.</p>  <p>I could write this as <math>(£5 \times \text{hour}) + £28</math>.</p>
<b>2a) How much would it cost for a 5 hour pony trek?</b>	<b>2b) How much would it cost for a 3 hour pony trek?</b>
$£5 \times 5 \text{ hours} = \underline{\quad} + £28 =$	

<b>3</b>	<p>The cost of hiring a taxi is a baseline £10 fee plus £1.50 a mile.</p> <p>I could write this as <math>(£1.50 \times \text{miles}) + £10</math></p>	
	<b>3a) How much would a 7 mile journey cost me?</b>	<b>3b) How much would a 4 mile journey cost me?</b>
	$£1.50 \times 7 \text{ miles} = \underline{\hspace{2cm}} + £10 =$	
<b>4)</b>	<p>A shop prints design on t-shirts. They use this formula to work out the cost of printing a design.</p> <p>Price = <math>60p \times \text{number of colours} + £1.25</math></p>	
	<b>4a) What is the price for printing a design that has 3 colours in it?</b>	<b>4b) What is the price of printing a design that has 5 colours in it?</b>
	$60p \times 3 \text{ colours} = \underline{\hspace{2cm}} + £1.25$	
<b>5)</b>	<p>Maria bakes cakes and sells them in bags. She uses this formula to work out how much to charge per bag of cakes.</p> <p>Cost = <math>\text{number of cakes} \times 20p + 15p</math> for the bag.</p>	
	<b>5a) How much will a bag of 10 cakes cost?</b>	<b>5b) How much will a bag of 12 cakes cost?</b>

20p x 10 cakes = _____ + 15p =	
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When your assignment is complete, close and then submit it back to me (the little button in the top right corner). We will then mark and feedback to you within the next 24 hours.

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