



1) The number for each part of my bar model is represented here in this place value grid.

ones	tenths	hundredths



What is the total value of my bar model?

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2) Use bar model B to help you give the total value of bar model A.



Total value of bar model A: \_\_\_\_\_

Total value of bar model B: \_\_\_\_\_

3) Complete the multiplication tables with the missing numbers.

a)

x	<b>3.47</b>	<b>5.89</b>
<b>3</b>		
<b>5</b>		

b)

x	<b>1.62</b>	<b>4.24</b>
		8.48
<b>6</b>		

4) On average, children grow around 0.58cm a month.

a) How much would an average child grow in 8 months?

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b) Eva had a growth spurt and grew three times faster than an average child. How much more than an average child did she grow in 8 months?

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1) Ava is using a place value chart to help her find the answer to this missing digit multiplication question.

$$\square . \square \square \times 3 = 6.96$$

ones	tenths	hundredths
1 1	0.1 0.1	0.01
1 1	0.1 0.1	0.01
1 1	0.1 0.1	0.01

- a) Has Ava represented the question correctly?  
Which multiplication calculation does Ava's place value chart represent?

I think that in order to find the correct missing number Ava must add another tenth counter and another hundredth counter to each row of the place value grid.



- b) Is Joshua correct? Explain your reasoning.

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2) Amrit and his friends are trying to decide the cheapest way to buy 28 cans of soft drink for his birthday party.

4 pack	6 pack
£2.19	£2.95

I think we should buy five of the 6 packs.



Devinder

I think we should buy four of the 6 packs and one of the 4 packs.



Morgan

I think we should buy seven of the 4 packs.



Ben

Whose advice should he follow in order to buy the cans of drink for the cheapest price?

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1) Complete this number statement. Do not use the same digit more than once. Find ten different possibilities.

Different digits from 0-9 may be used here.	A digit from 2-9 may be used here.
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$\square . \square \square \times \square = \text{Any answer between 5 and 7}$

2) Find two decimal numbers that add together to make one, e.g.  $0.44 + 0.56 = 1$

Multiply each of these decimal numbers by any whole number lower than 10, e.g.

$0.44 \times 4 = 1.76$

$0.56 \times 4 = 2.24$

Add the two products together. What do you notice?

Investigate if the same thing will happen with all other decimals pairs that add together to make one. Explain why you think this happens?

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