

- 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.

- 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 seven of the 4 packs.



Ben



Morgan

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

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

1) a) $2.21 \times 3 = 6.63$

b) Joshua is correct. If Ava adds another tenth counter to each row and another hundredth counter to each row, she will now have represented $2.32 \times 3 = 6.96$ as required in the original question.

2) $5 \times £2.95 = £14.75$

$7 \times £2.19 = £15.33$

$4 \times £2.95 = £11.80 + £2.19 = £13.99$

Morgan is correct as four 6 packs will cost £11.80 ($4 \times £2.95$) and added to £2.19 for a 4 pack makes a total of £13.99.

