<u>Answers</u>

1. 136 x 5 = 680
2. 4.217 x 6 = 25.302
3. 82.09 x 7 = 574.63
4. 732 ÷ 3 = 244
5. 211 ÷ 5 = 42.2
6. 371.7 ÷ 9 = 41.3

Q7. An explanation that shows Adam has four times as many balloons as Chen, e.g.

- 24 × 6 is 4 times as many as 12 × 3
- 144 is four times 36
- 144 ÷ 4 = 36
- 144 ÷ 36 = 4
- 36 × 4 = 144
- Adam buys twice as many bags of twice as many balloons, so it's doubled twice
- 24 is double 12 and 6 is double 3, so it's doubled twice
- Chen buys half the amount of bags and each bag has half the number of

  balloons, so he has $\frac{1}{4}$ of the amount.

> ***Do not*** *accept vague or incomplete explanations,*
> *e.g.*
> • *Adam buys more bags and there are more*
> *balloons in each bag*
> • *Adam buys twice as many bags of twice as*
> *many balloons*
> • *24 is double 12 and 6 is double 3.*

[1]

Q8.

A counter-example or an explanation that shows Alfie is incorrect, eg:

■ 'It doesn't work when one of the numbers is 1'

> *No mark is awarded for circling 'No' alone.*
> ***Do not*** *accept vague or incomplete explanations,*
> *eg:*
> ■ *'It's not always true'*
> ■ *'It doesn't work when **one** of the numbers is*
> *small'*

■ '1 × 99 = 99, and 99 is not less than 99'

■ 'It's not true for zero'

- ■ '0 × 5 = 0, and 0 is less than 5'

- ■ 'It doesn't work for fractions less than 1'

- ■ '0.5 × 8 = 4, and 4 is less than 8'

- ■ 'If one number is negative and the other is positive, the answer is negative'
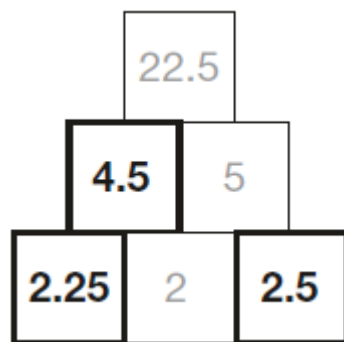
  If 'Yes' is circled but a correct, unambiguous
  explanation is given then award the mark.

  U1

  [1]

Q9

Award **TWO** marks for three numbers correctly placed.

If the answer is incorrect award **ONE** mark for two numbers correctly placed.

Commentary: This question involves multiplying and dividing decimals where the answer has up to two decimal places (6F9).

Up to 2

[2]

Q10.

Award **TWO** marks for the correct answer of £0.90

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- £1.35 × 2 = £2.70
  £2.70 ÷ 3

  Accept for ONE mark an answer of £90p OR £0.9
  as evidence of an appropriate method.

  Answer need not be obtained for the award of ONE
  mark.

  Up to 2m

  [2]