## Q1.

Layla makes jewellery to sell at a school fair.
Each bracelet has 53 beads.

She makes 68 bracelets.

Each necklace has 105 beads.


She makes 34 necklaces.

How many beads does Layla use altogether?


3 marks

Q2.


Adam buys 6 bags of white balloons.
Chen buys $\mathbf{3}$ bags of red balloons.
Adam says,
'I have four times as many balloons as Chen.'
Explain why Adam is correct.


Q3.
A toy shop orders 11 boxes of marbles.
Each box contains 6 bags of marbles.
Each bag contains 45 marbles.


How many marbles does the shop order in total?


Q4.
Write the two missing digits to make this long multiplication correct.


Page 3 of 7

Q5.
In this tower, two numbers are multiplied to give the number above.


Write the missing numbers in the tower below to make it correct.


## Mark schemes

## Q1.

Award THREE marks for the correct answer of 7,174
If the answer is incorrect, award TWO marks for:

- evidence of an appropriate complete method which contains no more than ONE arithmetic error, e.g.
53

$\times \quad$| 105 |
| ---: |
| $\times 35$ |$\quad \times$| 34 |
| ---: |
| 3570 |

$3,504+3,570=7,074$
Award ONE mark for:

- evidence of an appropriate method with more than ONE arithmetic error.


## OR

- sight of 3,604 as evidence of long multiplication step $(68 \times 53)$ completed correctly.


## OR

- sight of 3,570 as evidence of long multiplication step ( $105 \times 34$ ) completed correctly. Answer need not be obtained for the award of ONE mark. A misread of a number may affect the award of marks. No marks are awarded if there is more than ONE misread or if the mathematics is simplified.
TWO marks will be awarded if an appropriate method with the misread number is followed through correctly.
ONE mark will be awarded for evidence of an appropriate method with the misread number followed through correctly with no more than ONE arithmetic error.

Up to 3m

Q2.
An explanation that shows Adam has four times as many balloons as Chen, e.g.

- $24 \times 6$ is 4 times as many as $12 \times 3$
- 144 is four times 36
- $144 \div 4=36$
- $144 \div 36=4$
- $36 \times 4=144$
- 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 .

Q3.
Award TWO marks for the correct answer of 2,970.
If the answer is incorrect, award ONE mark for evidence of an appropriate method with no more than one arithmetic error, e.g.

- $11 \times 6=66$
$66 \times 45$
Do not accept sight of a correct multiplication only, e.g. $11 \times 6 \times 45$, for ONE mark.

Misreads are not allowed.

$$
\text { Up to } 2 m
$$

Q4.
Award TWO marks for both digits correct, as shown:


If the answer is incorrect, award ONE mark for one digit correct.
Up to 2

Q5.
Gives the three correct numbers in their correct positions, ie:


- accept ${ }^{12 \frac{3}{6}}$ for 12.5
or
Gives two correct numbers in their correct positions

