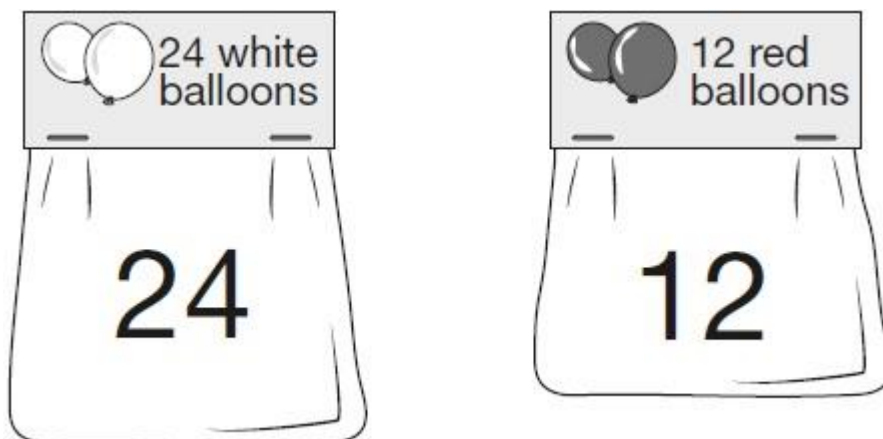


Q2.



Adam buys **6** bags of white balloons.

Chen buys **3** bags of red balloons.

Adam says,

'I have four times as many balloons as Chen.'

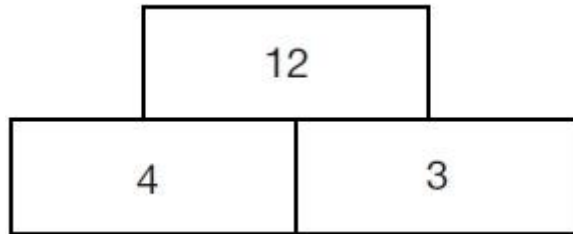
Explain why Adam is correct.

A large, empty, cloud-shaped outline with a scalloped border, intended for the student to write their explanation.

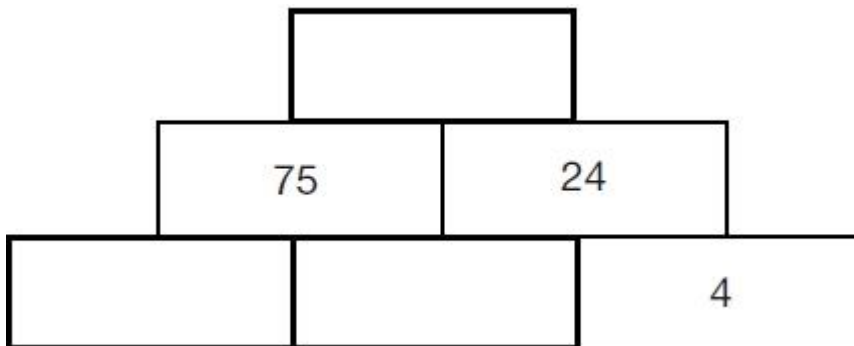
1 mark

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.



2 marks

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.

$$\begin{array}{r} 53 \\ \times 68 \\ \hline 3504 \text{ (error)} \end{array} \qquad \begin{array}{r} 105 \\ \times 34 \\ \hline 3570 \end{array}$$

$$3,504 + 3,570 = 7,074$$

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 (68×53) completed correctly.

OR

- sight of 3,570 as evidence of long multiplication step (105×34) 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

[3]

Q2.

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
- $144 \div 4 = 36$
- $144 \div 36 = 4$
- $36 \times 4 = 144$
- 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.

- accept $12\frac{3}{6}$ for 12.5

2

or

Gives two correct numbers in their correct positions

1

[2]