

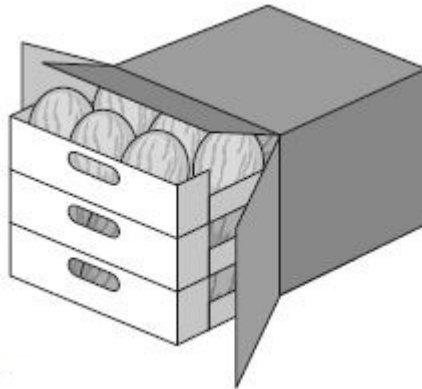
In this sequence, the rule to get the next number is

Multiply by 2, and then add 3

	25	53	
--	----	----	--

A box contains trays of melons.

There are 3 trays in a box.



How many melons does the supermarket sell?

Show your method

melons

Page 1 of 13

3.



Write the correct symbol in each box to make the statements correct.

11×12 15×10

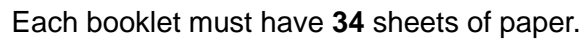
$90 \div 30$ $60 \div 20$

$120 \div 4$ $160 \div 8$

30×8 100×10

2 marks

Adam is making booklets.



There are **500** sheets of paper in each packet.

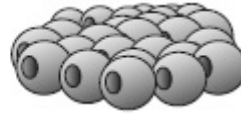
Show
your
method

booklets

Castlecombe Primary School

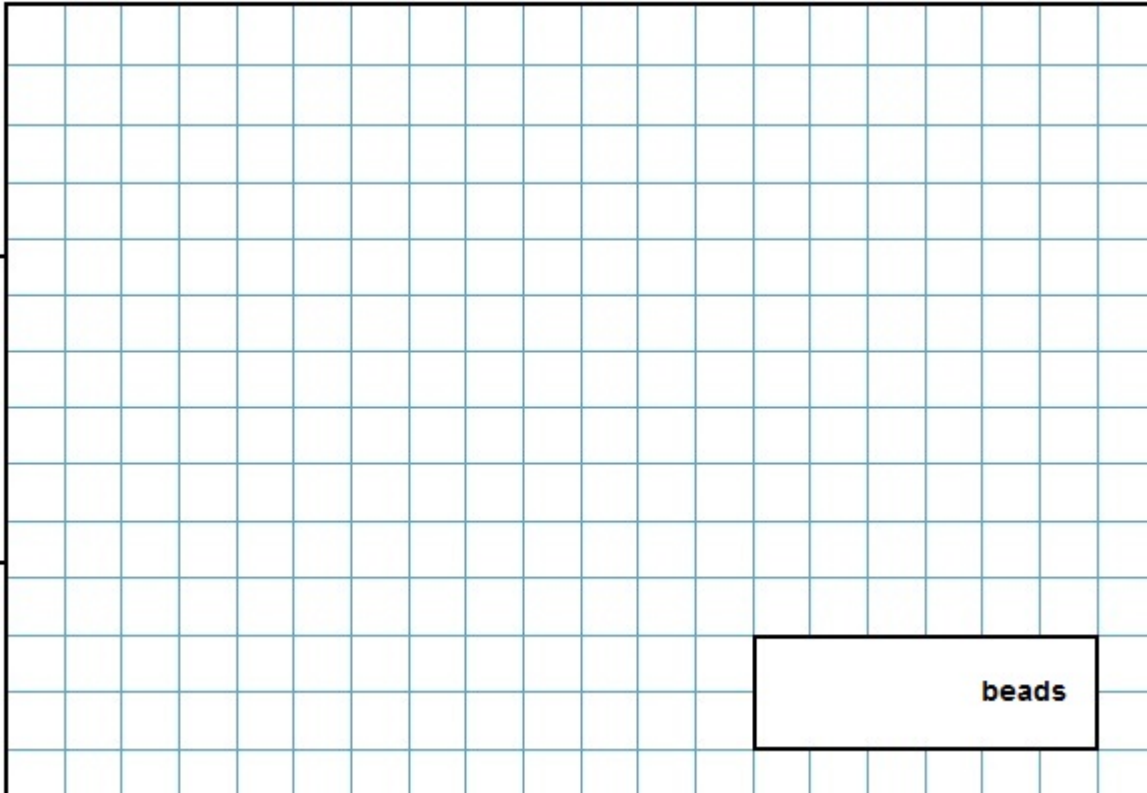
Layla makes jewellery to sell at a school fair.

She makes **68** bracelets.



She makes **34** necklaces.

How many beads does Layla use **altogether**?



beads

Page 4 of 13

Here are five numbers.

~~2~~ 3 4 5 6

Write each number on the correct cards.

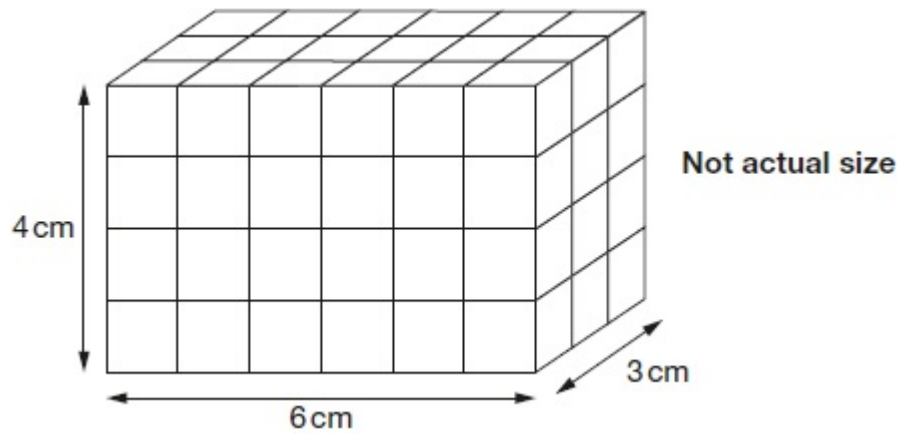
The number 2 has been written on the correct cards for you.

Three cards are shown, each with a title box at the top and a content area below.

- Card 1: Title box contains "Prime numbers". Content area contains the number 2.
- Card 2: Title box contains "Factors of 12". Content area contains the number 2.
- Card 3: Title box contains "Factors of 15". Content area is empty.

2 marks

Amina made this cuboid using centimetre cubes.



Stefan makes a cuboid that is 5 cm longer, 5 cm taller and 5 cm wider than Amina's cuboid.

What is the **difference** between the number of cubes in Amina's and Stefan's cuboids?

Show your method

cubes

2 marks

8.

A theme park sells tickets online.

Each ticket costs £24

There is a £3 charge for buying tickets.

Which of these shows how to calculate the total cost, in pounds?

Tick **one**.

number of tickets $\times 3 + 24$

☐

number of tickets $\times 24 + 3$

☐

number of tickets $+ 3 \times 24$

☐

number of tickets $+ 24 \times 3$

☐

1 mark

9.

Write the missing number.

$$6 + 2 \times 2 - \square = 6$$

1 mark

10.

Jack chose a number.

He multiplied the number by 7

Then he added 85

His answer was 953

What number did Jack choose?

Show
your
method

A large grid for showing the method, with a smaller rectangular box on the right side.

2 marks

Mark schemes

1.

- (a) 11 written in the first box, as shown:

11	25	53	
----	----	----	--

1

- (b) 109 written in the last box, as shown:

	25	53	109
--	----	----	-----

1

[2]

2.

Award **TWO** marks for the correct answer of 1800

If the answer is incorrect, award **ONE** mark for evidence of appropriate complete method with no more than one arithmetic error, e.g.

- $40 \times 15 = 500$ (error)
 $500 \times 3 = 1500$

***Do not** accept sight of a correct multiplication, e.g. $40 \times 15 \times 3$, for **ONE** mark unless part of the calculation is evaluated correctly.*

*Misreads are **not** allowed.*

If no answer is given, the first part of the calculation must be evaluated correctly for the award of **ONE** mark, e.g.

- $15 \times 3 = 45$
 $45 \times 40 =$

OR

- $40 \times 15 = 600$
 $600 \times 3 =$

OR

- $40 \times 3 = 120$
 $120 \times 15 =$

Up to 2m

[2]

3.Award **TWO** marks for all symbols correct, as shown:

11×12	$<$	15×10
$90 \div 30$	$=$	$60 \div 20$
$120 \div 4$	$>$	$160 \div 8$
30×8	$<$	100×10

Award **ONE** mark for any three symbols correct.

Up to 2 marks

[2]**4.**Award **TWO** marks for the correct answer of 29If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $2 \times 500 = 1,000$
 $1,000 \div 34 =$

OR

- $2 \times 500 \div 34 =$

OR

- $500 \div 34 = 14 \text{ r}23$ (error)
 $14 \text{ r}23 \times 2 = 28 \text{ r}46$

OR

- $34 \times 10 = 340$
 $34 \times 30 = 1,020$

Answer = 30 booklets (error)

*Answer need not be obtained for the award of **ONE** mark.**Answer does not need to have been rounded or rounded correctly for the award of **ONE** mark.**If a pupil reaches a non-integer answer, for example 28 r2 and expresses it as 28.2 without further working, this is considered a notation error and is condoned.**Within an appropriate method, if the pupil's remainder from 500 divided by 34 is less than 17 and this remainder is ignored before doubling, this is acceptable for **ONE** mark. If the pupil's remainder is 17 or more and it has been ignored before doubling, this is **not** acceptable for **ONE** mark.***Do not** accept a trial and improvement method.

Up to 2 marks

[2]

5.

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.

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

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

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.*

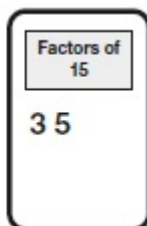
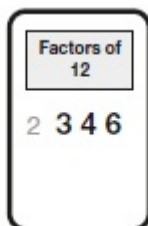
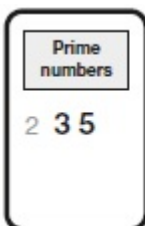
***ONE** mark will be awarded for evidence of an appropriate method with the misread number followed through correctly with no more than **ONE** arithmetic error.*

Up to 3m

[3]

6.

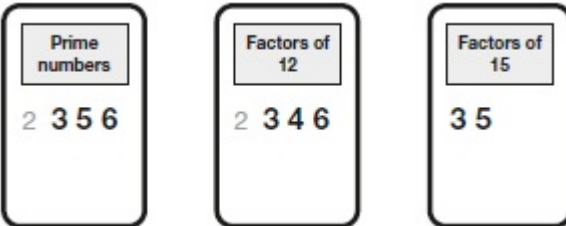
Award **TWO** marks for all four given numbers placed completely correctly 7 times, as shown:



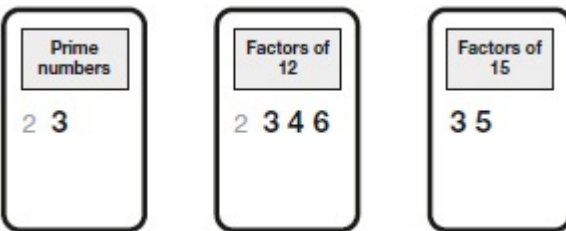
If the answer is incorrect, award **ONE** mark for three of the given numbers all placed completely correctly, e.g.



OR



OR



Accept the numbers in any order.

Ignore any additional numbers not given in the question.

Up to 2m

[2]

7.

Award **TWO** marks for the correct answer of 720

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

- $3 \times 4 \times 6 = 72$
 $8 \times 9 \times 11 = 792$
 $792 - 72 =$

Award **ONE** mark for sight of 792

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

Up to 2m

[2]

8.

Second box only ticked correctly, as shown:

number of tickets $\times 3 + 24$

☐

number of tickets $\times 24 + 3$

☒

number of tickets $+ 3 \times 24$

☐

number of tickets $+ 24 \times 3$

☐

Accept alternative unambiguous positive indication of the correct answer, e.g. Y.

[1]

9.

4

[1]

10.

Award **TWO** marks for the correct answer of 124

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

- $953 - 85 = 868$
 $868 \div 7$

*Answer need not be obtained for the award of **ONE** mark
If the pupil's evaluation contradicts the appropriate method, the method mark will not be awarded.*

Up to 2m

[2]