1

$$\begin{array}{r} 2195 \\ \times \quad 3 \\ \hline \end{array}$$

1 mark

2

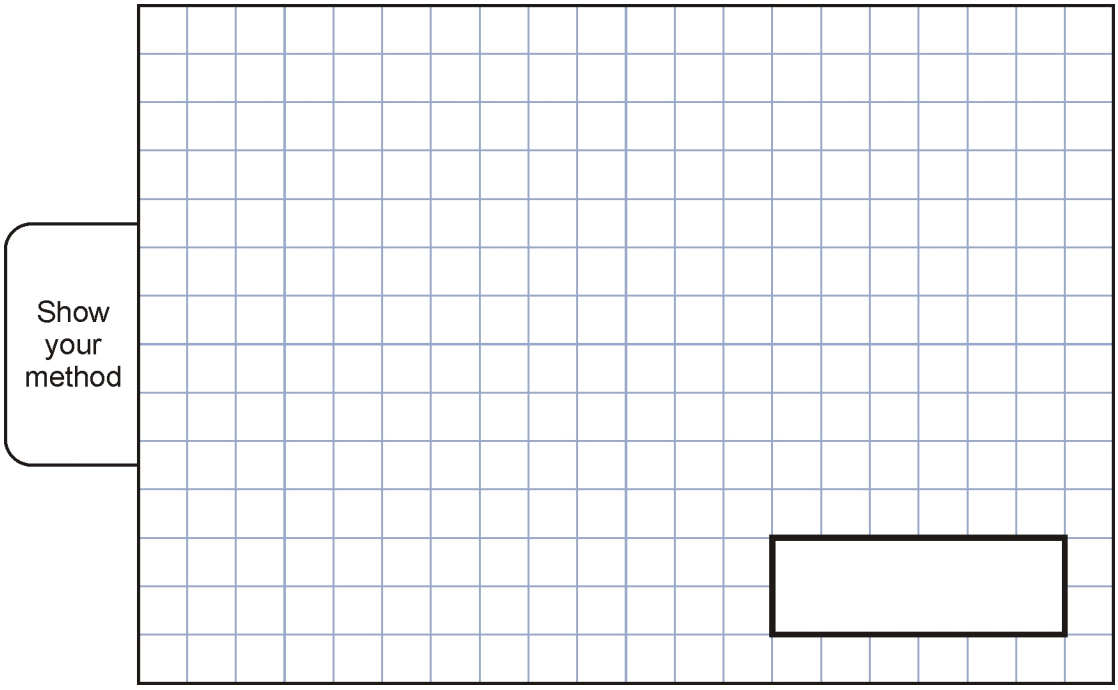
8628 ÷ 4 =

1 mark

3

Calculate **560 × 28**

Show your method



2 marks

4

2416 ÷ 8 =

1 mark

5

$\square \times 10 = 350.5$

$460 \div \square = 4.6$

$2.3 \times \square = 2300$

2 marks

6

Write in the missing digits to make this correct.

$$\begin{array}{r} \square\ 4\ \square \\ \times\quad\quad 6 \\ \hline 2\ 0\ 5\ 2 \end{array}$$

2 marks

7 Amir says,

'All numbers that end in a 4 are multiples of 4'.

Is he correct?

Circle **Yes** or **No**.

Yes / No

Explain how you know.

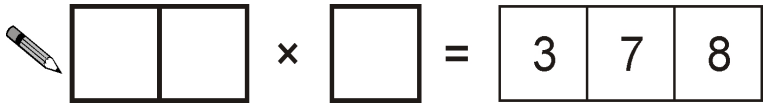
1 mark

8 A spoonful is **5ml.**

How many spoonfuls can you get from this bottle?

1 mark

9 Write what the **three** missing digits could be in this calculation.



1 mark

10 A gardener plants tulip bulbs in a flower bed.

She plants 3 red bulbs for every 4 white bulbs.

She plants 60 red bulbs.

How many **white** bulbs does she plant?

Show your method

2 marks

11 The **same** number is missing from each box.

Write the **same** missing number in each box.

$\square \times \square \times \square = 1331$

1 mark

12 In a country dance there are **3 boys** and **2 girls** in every line.

42 boys take part in the dance.

How many **girls** take part?

Show your method

2 marks

13 A 5p coin has a diameter of 1.8 centimetres.

Holly makes a straight line of 5p coins worth £10

£10

How long is Holly's line?
Give your answer in **metres**.

Show your method

m

2 marks

Mark schemes

1 6585

[1]

2 2157

[1]

3 Award **TWO** marks for the correct answer of 15 680

If the answer is incorrect, award **ONE** mark for evidence of appropriate working which contains no more than **ONE** arithmetical error, eg:

- long multiplication algorithm, eg

```
  560
× 28
11200
 4480
wrong answer
```

- grid method, eg

	500	60
20	10000	1200
8	4000	480

= wrong answer

- partitioning method, eg

560 × 10 = 5600
560 × 10 = 5600
560 × 8 = 4480
wrong answer

- factorisation method, eg

560 × 7 = 3920
3920 × 4 = wrong answer

*In all cases accept follow through of **ONE** error in working.*

***Do not** award any marks if:*

- *the error is in the place value, eg the omission of the zero when multiplying by two tens, eg*

```
 560
× 28
1120
 4480
wrong answer
```

- *the final (answer) line of digits is missing.*

Variations on algorithms are acceptable, provided they represent viable and complete methods.

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2m

[2]

4 302

[1]

5 All three correct
35.05
100
1000

2

or

Any two correct

1

[2]

6

$$\begin{array}{r} \boxed{3}\,4\,\boxed{2} \\ \times \qquad 6 \\ \hline 2\;0\;5\;2 \end{array}$$

(a) 3 in left hand box

1

(b) 2 in right hand box

1

[2]

7 An explanation which gives a counter-example to illustrate that not all numbers ending in 4 are multiples of 4, eg:

- '14 is not a multiple of 4'
- '4, 24 and 44 are multiples of 4, but not 14 and 34'
- '14 or 34 don't work'
- '54'

OR

an explanation which recognises that only numbers ending in 4 which have an even number of tens are multiples of 4, eg:

- 'It has to have an even number of 10s as well, like 20 or 40'
- '14, 24, 34, 44, 54, 64 – only half of them are'
- '4 doesn't go into 10 so 14 isn't'.

No mark is awarded for circling 'No' alone.

***Do not** accept vague or incomplete explanations, eg:*

- *'Some numbers end in a 4 but aren't multiples of 4'*
- *'16 doesn't end in 4'*
- *'Not all multiples of 4 end in 4'*
- *'24 is a multiple of 4 but the next one isn't'*
- *'4, 8, 12, 16, 20, 24 etc'.*

If 'Yes' is circled but a correct, unambiguous explanation is given, then award the mark.

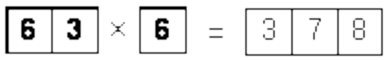
U1

[1]

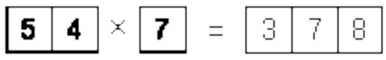
8 75 (spoonfuls)

[1]

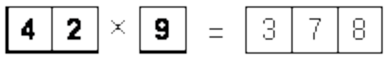
9 Calculation completed correctly as shown:



OR



OR



[1]

10 Award **TWO** marks for the correct answer of 80

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg:

- 60 ÷ 3 = 20

  20 × 4

OR

- 3 red 4 white

  30 red 40 white

  60 red…

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

Up to 2

[2]

11 11 × 11 × 11

Accept answer elsewhere, if boxes are blank.
Accept 11 written only once, if other boxes are blank.

[1]

12 Award **TWO** marks for the correct answer of 28.

If answer is incorrect, award **ONE** mark for evidence of appropriate strategy, eg:

- 42 ÷3 × 2
- 3b and 2g
  6b and 4g
  .
  .
  .
  42b and
- 3 6 9 12 42
  2 4 6 8

*An actual calculation is **not** required for the award of one mark.*
Appropriate strategy must include use of
3 : 2 (boys : girls) ratio.

Up to 2

[2]

13 Award TWO marks for the correct answer of 3.6

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, eg:

- 10 ÷ 0.05 = 200
  200 × 1.8 = 360
  360 ÷ 100

OR

- 20 5p coins make £1
  200 5p coins make £10
  200 × 0.018

*Answer must be in metres for the award of **TWO** marks.*

*Accept for **ONE** mark 360 centimetres.*

*If the answer is incorrect, accept for **ONE** mark an answer of 36 multiplied by any power of 10 with no evidence of an incorrect method.*

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

Up to 2

[2]