

Mark scheme

Q1.

(a) 163

1

(b) 2

1

[2]

Q2.

75 (spoonfuls)

[1]

Q3.

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]

Q4.

48 r 4

1

887

1

[2]

Q5.

34 (groups)

[1]

Q6.

7

[1]

Q7.

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]

Q8.

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

11	25	53	
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1

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

	25	53	109
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1

[2]

Q9.

95×6 **OR** 96×5

[1]

Q10.

Award **TWO** marks for three rows completed correctly as shown:

50

120 OR 140 OR 160 OR 180

210 OR 240 OR 270

320 OR 360

If the answer is incorrect, award **ONE** mark for two rows correct.

Up to 2

[2]

Q11.

Three multiples of 3, eg:

3 6 2 4 5 7

OR

6 3 7 2 5 4

Multiples may be given in any order.

*Digits may be in either order, eg 24 **OR** 42*

Do not accept digits used more than once.

Do not accept digits other than those shown.

U1

[1]

Q12.

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]

Q13.

(a) 5

1

(b) 13

1

[2]

Q14.

$$\begin{array}{|c|c|} \hline 3 & 2 \\ \hline \end{array} \times \begin{array}{|c|} \hline 4 \\ \hline \end{array}$$

U1

[1]

Q15.

Award **TWO** marks for all three numbers correct as shown:

• a multiple of 9 $\begin{array}{|c|c|} \hline 2 & 7 \\ \hline \end{array}$ OR $\begin{array}{|c|c|} \hline 7 & 2 \\ \hline \end{array}$

• a square number $\begin{array}{|c|c|} \hline 2 & 5 \\ \hline \end{array}$

• a factor of 96 $\begin{array}{|c|c|} \hline 1 & 2 \\ \hline \end{array}$

If the answer is incorrect, award **ONE** mark for two numbers correct.

Up to 2

[2]

Q16.

10

U1

[1]

Q18.

(a) £22.50 **OR** 2250p

*Accept £22.50p **OR** 22.50 **OR** 2250 **OR** 22 50.*

***Do not** accept £2250 **OR** 22.50p **OR** £22.5.*

1

(b) Award **TWO** marks for the correct answer of 42

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

840 ÷ 20 **OR** 8.4 ÷ 0.2

*Accept for **ONE** mark, £42 **OR** 42p as evidence of an appropriate method.*

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

No method mark is awarded for 8.40 ÷ 20 alone.

Up to 2

[3]

Q19.

109 **OR** 118 circled.

Accept both 109 and 118 circled.

[1]

Q20.

20 p 10p

Coins must be in the correct order

[1]

Q21.

Award **TWO** marks for four correct numbers, e.g.

	even	not even
a cube number	64	27
not a cube number	4	5

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

[2]