1. Here are six digit cards.

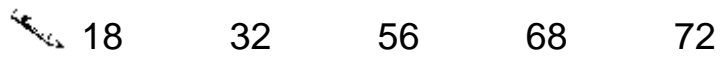2   3   4   5   6   7

Use **all six** digit cards to make three multiples of 3

☐☐   ☐☐   ☐☐

1 mark

2. Circle all the **multiples of 8** in this list of numbers.

18   32   56   68   72

1 mark

3. Write in the missing number.

☐ × 4 = 96

1 mark

4. 24 × 7 =

☐

1 mark

5. Here are five digit cards.

0   1   4   5   8

Use **all** five digit cards to make this correct.

☐☐ × 2 = ☐☐☐

1 mark

6. Write in the missing numbers.

$5 \times 70 =$ ☐
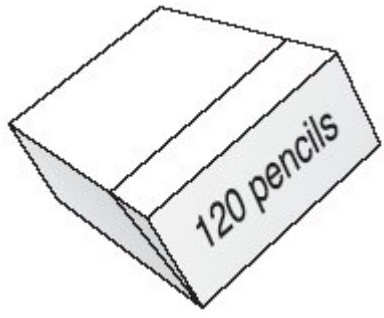
1 mark

$4 \times$ ☐ $= 200$

1 mark
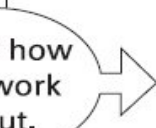
7. $87 \div 3 =$

☐

1 mark

8. Miss Wood's class had 120 pencils at the start of the year.

120 pencils

12 children use 5 pencils each.

11 children use 4 pencils each.

How many pencils are left at the end of the year?

Show how you work it out.

☐ pencils

2 marks

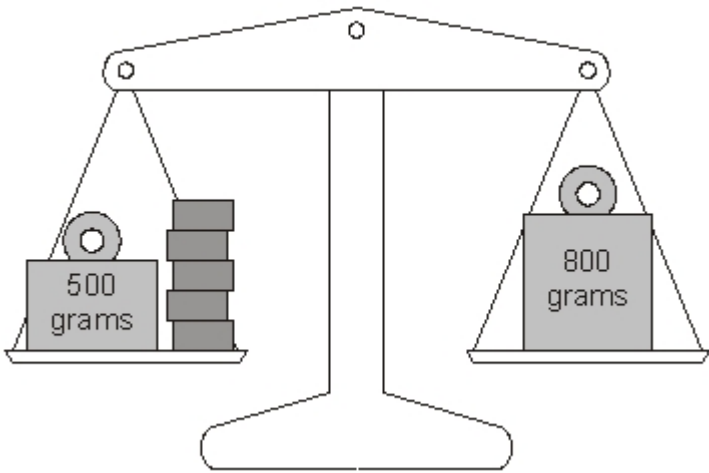**9.** 4 pineapples cost £3.40

Calculate the cost of **1** pineapple.

☜ [   ] p

1 mark

10. Lin has five blocks which are all the same.

She balances them on the scale with two weights.

Calculate the weight of **one** block.

☜

Show your method

[   ]

2 marks

Mark schemes

1. 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]

2. All three numbers circled as shown:

18   (32)   (56)   68   (72)

***Do not** award the mark if additional incorrect numbers are circled.*
Accept unambiguous alternatives, eg ticks, numbers crossed or underlined.

[1]

3. 24

[1]

4. 168

[1]

5. Calculation completed correctly as shown:

| 5 | 4 | × 2 = | 1 | 0 | 8 |

U1

[1]

6. (a) $5 \times 70 =$ 350

1

(b) $4 \times$ 50 $= 200$

1

[2]

7. 29

[1]

8.

Award **TWO** marks for the correct answer of 16

If the answer is incorrect, award **ONE** mark for evidence of appropriate working which involves a complete and correct method, eg

12 × 5 = 60
11 × 4 = 44
60 + 44 = 104
120 − 104 = wrong answer

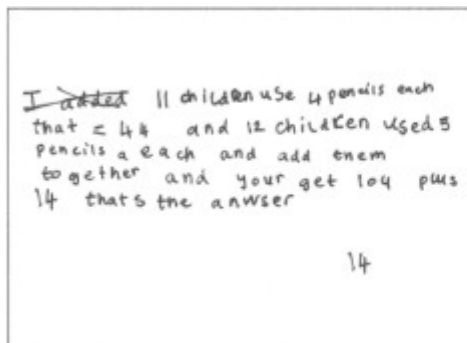*An answer must be given for the award of **ONE** mark.*

Up to 2
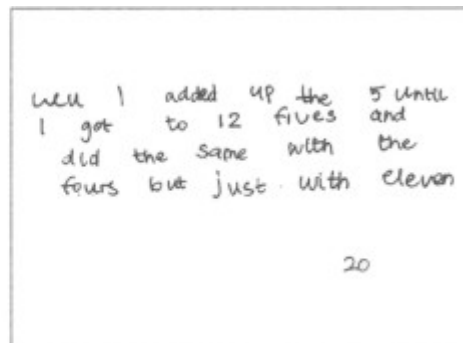U1

[2]

Examples of responses

We can assume from Kate's first sentence that she correctly calculated 12 multiplied by 5 to equal 60 then added it to 44. So her explanation makes clear how she worked out that 104 pencils were used. In her attempt to subtract 104 from 120, she made an error but she describes a complete and correct method. Kate can be awarded the mark. In contrast, Bill attempted to explain how he worked out the total number of pencils used. However, as he has not recorded this total, we cannot assume that his answer of 20 was the difference between 120 and the total he calculated. His written description does not describe a complete method. Bill cannot be awarded the mark.

Kate	**Bill**
I added 11 children use 4 pencils each that = 44 and 12 children used 5 pencils a each and add them together and your get 104 plus 14 that's the anwser 14	well I added up the 5 until I got to 12 fives and did the same with the fours but just with eleven 20
1 mark	**0 marks**

Ashley has made one calculation error when working out 11 groups of 4. Although he has not recorded the method that he used to obtain his answer of 18, we can assume that his method was correct since 120 subtract 102 equals 18. There is sufficient evidence for us to assume that Ashley's method was complete and correct. Ashley can be awarded the mark. Paula also has calculated incorrectly 11 groups of 4 but, unlike Ashley, her follow-up working does not provide an appropriate method for calculating the number of pencils left. Her method is not complete or correct. Paula cannot be awarded the mark.

Ashley   **Paula**

60 pencils
42 pencils

60 pencils + 42 pencils = 18

5 × 12 = 60
4 × 11 = 40

60 − 40

20

1 mark   **0 marks**

Sumila has used a counting back method that shows that she recognised the need to subtract twelve groups of 5 and eleven groups of 4 from 120. She made one error in calculating 12 multiplied by 5. However, the method she used was complete and correct. Sumila can be awarded the mark. Michael also has used a counting back method but since he subtracted only one lot of 5 then one lot of 4 from 120 to obtain his answer, his working shows that he failed to identify a complete or correct method. Michael cannot be awarded the mark.

Sumila   **Michael**

$120 - 50 = 70$
$70 - 44 = 26$

26

$120 - 5 = 115$
$115 - 4 = 112$

112

1 mark   **0 marks**

9.   85

*Accept £0.85p **OR** £0 85p*
***Do not** accept 0.85p **OR** £85p*

[1]

10. Award **TWO** marks for the correct answer of 60

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

800 − 500 = 300

300 ÷ 5

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

Up to 2 (U1)

[2]