**Q1.**

Estimate the answer to this calculation.

23,901 – 5,097

Circle the correct estimate.

6,000       17,000       18,000

19,000       20,000

1 mark

**Q2.**

This table shows the heights of three mountains.

|  |  |
| --- | --- |
| **Mountain** | **Height in metres** |
| Mount Everest | 8,848 |
| Mount Kilimanjaro | 5,895 |
| Ben Nevis | 1,344 |

How much higher is Mount Everest than the combined height of the other two mountains?



2 marks

**Q3.**

Write the four missing digits to make this **addition** correct.



2 marks

**Q4.**

At the start of June, there were 1,793 toy cars in the shop.

During June,

•        8,728 more toy cars were delivered

•        9,473 toy cars were sold.

How many toy cars were left in the shop at the end of June?



2 marks

**Q5.**

Nadia is working with **whole** numbers.

She says,

***'If you add a two-digit number to a two digit number you cannot get a four-digit number.***

Is she correct?   Circle Yes or No.                              **Yes  /  No**

Explain why.



1 mark

**Q6.**

14,890 festival tickets were sold before the event.

Another 6,752 were sold on the day.

546 people did not arrive at the festival.

How many people were at the festival altogether?



2 marks

**Q7.**

Liam has two different sizes of rectangle.



He makes this pattern with them.



**Not actual size**

Calculate the lengths of **A** and **B**.



1 mark



1 mark

**Q8.**

Emily chooses two numbers.



She adds the two numbers together and divides the result by 2

Her answer is 44

One of Emily’s numbers is 12

What is Emily’s other number?



2 marks

**Q9.**

A **drink** and a **box of** **popcorn** together cost **90p**.



**2 drinks** and a **box of popcorn** together costs **£1.45**



What does a **box of popcorn** cost?



1 mark

Explain how you got your answer.



1 mark

**Q10.**

Amir has three parcels.

Parcels A and B together weigh the same as parcel C.



The three parcels weigh 800 grams altogether.

Parcel A weighs 250 g.

How much does parcel B weigh?



2 marks

Mark schemes

**Q1.**

19,000

**[1]**

**Q2.**

Award **TWO** marks for the correct answer of 1,609

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

•    5,895 + 1,344 = 7,239

     8,848 − 7,239

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

**Up to 2m**

**[2]**

**Q3.**

Award **TWO** marks for four boxes completed correctly, as shown.



*If the answer is incorrect, award* ***ONE*** *mark
for three boxes completed correctly.*

**Up to 2**

**[2]**

**Q4.**

Award **TWO** marks for the correct answer of 1,048

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

•    1,793 + 8,728 = 10,521

     10,521 − 9,473

**OR**

•    9,473 − 8,728 = 745

     1,793 − 745

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

**Up to 2m**

**[2]**

**Q5.**

Explanation which recognises that the largest two-digit number (99) added
to itself only gives a three-digit number (198), eg

•    ‘Because if you do 99 + 99 you only get a three-digit number’;

•    ‘If you add any 2 two-digit numbers, you will get a three-digit number or a
two-digit number’.

*No mark is awarded for circling the ‘Yes’ alone.*

***Do not*** *accept vague or arbitrary explanations such as*

*•    ‘The numbers aren’t big enough’;*

*•    ‘It doesn’t work’.*

*If ‘No’ is circled but a correct unambiguous explanation is
given then award the mark.*

**[1]**

**Q6.**

Award **TWO** marks for the correct answer of 21,096

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

14,890 + 6,752 = 21,642

21,642– 546 = (no answer or wrong answer)

**OR**

14,890 – 546 = 14,354 (error)

14,354 + 6,752 = 21,106

**[2]**

**Q7.**

(a)     5

**1**

(b)     15

*If the answer is incorrect, award the mark if the answers to (a) and (b) total 20*

**U1**

**[2]**

**Q8.**

Award **TWO** marks for the correct answer of 76

          If the answer is incorrect, award **ONE** mark for evidence of appropriate
method, eg
44 × 2 = 88
88 – 12

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

**Up to 2**

**[2]**

**Q9.**

(a)     35p

*Answer to 17a may be embedded in answer to 17b.
In this case, award one mark for correct answer.*

**1**

(b)     Explanation which includes reference to any appropriate method even if the
answer is incorrect, eg:

•    I took 90 from 145 and took my answer from 90

•    If a drink and popcorn costs 90p you add to it however much it takes to make 145, which is 55p so you times 55 by 2 which is 110 and take away 145 and you get 45 (incorrect answer).
OR
a trial and improvement approach, eg:

•    I thought they might both cost 45p. I guessed the drink and doubled it to make 90p, then added another 45 but I got 10 less than £1.45. So I tried 55 and it worked so the popcorn is 35

*Accept appropriate numerical working elsewhere on page as adequate explanation. If there is no working and no explanation, there is no mark for 17b, even if 17a is correct.*

*If answer to 17a is correct, accept appropriate non-numerical answer to 17b, (ie no reference to actual amounts of money).*

**1**

**[2]**

**Q10.**

Award **TWO** marks for the correct answer of 150

          If the answer is incorrect, award **ONE** mark for evidence of appropriate
working, eg
800 ÷ 2 = 400
400 – 250 = wrong answer

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

**Up to 2 (U1)**

**[2]**