Q1. Stefan has $\mathbf{6 0 0}$ millilitres of water in a bottle.

He pours some of the water into two measuring jugs as shown.


How many millilitres of water are left in Stefan's bottle?


2 marks

Q2.
At the start of June, there were 1,793 toy cars in the shop.
During June,

- $\quad 8,728$ 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

Q3.


There are 2,400 leaflets in a box.
William and Ally take 450 leaflets each.
Adam and Chen share the rest of the leaflets equally.
How many leaflets does Adam get?


Q4.

Liam has five coins.
Three of the coins add up to $\mathbf{3 0}$ p.
Three of the coins add up to 40p.
All five coins add up to $£ 1$
What are the coins that Liam has?


Q5. Seb saved up for a new skateboard that cost £40


The table shows how much money he saved each week.

| Week <br> number <br> Amount <br> saved | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $£ 5$ | $£ 4$ | $£ 2$ | $£ 4$ | $£ 3$ | $£ 4$ | $£ 6$ | $£ 4$ | $£ 3$ | $£ 5$ |

In which week did Seb reach half the amount he needed for the skateboard?

## Week

If Seb had saved an extra $£ 1$ each week, in which week would he have reached his target of $£ 40$ ?

## Week

Q6. Chen and Megan each buy a sandwich.
Chen gets 5 p change from £2
Megan gets $£ 2.25$ change from $£ 5$
How much more does Megan pay than Chen?


2 marks

Q7. The numbers in this sequence increase by 10 each time.

$$
\begin{array}{lll}
3 & 13 & 23
\end{array}
$$

The sequence continues in the same way.
Write two numbers from the sequence that add to make a total of 96


Explain why it is not possible to find three numbers from the sequence that add to make a total of 96


1 mark

Q8.
The number in $\mathbf{A}$ is twice the number in $\mathbf{D}$.
The number in $\mathbf{B}$ is 5 less than the number in $\mathbf{C}$.
The number in $\mathbf{D}$ is $\mathbf{1 0}$ more than the number in $\mathbf{B}$.
Write the missing numbers in this diagram.


Now use the same rule for this diagram.


Q9.
Write numbers in the boxes to make this calculation correct.

$$
50-\square=\square+10
$$

Q10.
Dev has a bag of 50p coins and Holly has a bag of 20p coins.


Holly's bag
Both bags have the same amount of money in.
There are thirty 50p coins in Dev's bag.
How many 20p coins are there in Holly's bag?

2 marks

## Q11.

Liam, Sarah and Amy buy lunch at a salad bar.

| salad bar |  |  |  |
| :--- | :---: | :--- | :---: |
| Salads |  | Desserts |  |
| cheese | $£ 1.20$ | banana | $25 p$ |
| egg | $90 p$ | apple pie | $50 p$ |
| tuna | $£ 1.60$ | yogurt | $35 p$ |

Liam has $£ 2.50$ to spend.
He buys a tuna salad and an apple pie.
How much money has he got left?


Sarah buys a cheese salad and a yogurt.
Amy buys an egg salad.
How much more does Sarah pay than Amy?


## Q12.



Liam spends $£ 14$ altogether on the Big Wheel and the Rollercoaster.
He goes on the Big Wheel twice.
How many times does he go on the Rollercoaster?


## Q13.

Liam has two different sizes of rectangle.


He makes this pattern with them.


Not actual size
Calculate the lengths of $\mathbf{A}$ and $\mathbf{B}$.


1 mark


1 mark

Q14.
Three different numbers add up to 40
The numbers are all even.
Each number is less than 20
Write what the three different numbers could be.


Q15.
Amir and Lara buy some fruit.

grapes
£2.50
for 1 kilogram

pineapples

$$
£ 1.40
$$

each

peaches £1.99 for a box

Amir buys 2 pineapples and a box of peaches.
How much does he pay?


1 mark
Lara buys half a kilogram of grapes and one pineapple.
How much change does she get from $£ 5$ ?


## Q16.

A shop sells food for birds.

$£ 3.79$ for a bag

$£ 1.35$ for a bag

£8.95 each

Lara has $£ 10$ to spend on peanuts.
How many bags of peanuts can she get for $£ 10$ ?


1 mark

## Amir has £20

He wants to buy a bird-feeder and 4 bags of bird seed.
How much more money does he need?


Q17.

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?


Q18.
A torch costs £7.65
Kate buys a torch and two batteries.


She pays $£ 8.75$ altogether.
How much does one battery cost?


Q19. The signs are missing from these number sentences.

Write in the missing signs, $+\quad \mathbf{x}$ or $\div$
The first has been done for you.
6
 $5=40(-$ 10

20

$8=4$


7

$3=15$


8

Q20.
Martin has some bricks.
They are 12 cm long, 6 cm high and 6 cm deep.


He builds this tower with five bricks.


How tall is the tower?


Each brick is 12 cm long.
Martin makes a line of bricks $\mathbf{1 3 2} \mathbf{~ c m}$ long.


How many bricks does he use?


1 mark

Q21.

Here is part of a number square.
The shaded numbers are part of a sequence.

|  | 113 | 114 | 115 |
| :--- | :--- | :--- | :--- | 116

Explain the rule for the sequence.


1 mark

## Q22.

Jordan, Anna and Ryan collect picture cards.
Cards are worth either $\mathbf{5 0}$ points or $\mathbf{1 0 0}$ points.
The table shows the cards they have.
Complete the table for Anna and Ryan.

|  | 50 points | 100 points | total number <br> of points |
| :---: | :---: | :---: | :---: |
| Jordon | 5 cards | 2 cards | 450 points |
| Anna | 3 cards | $\square$ cards | 550 points |
| Ryan | 4 cards | 6 cards | $\square$ |

## Q23.

Write in the missing digits.


Q24.
Leon and Sara each started with different numbers.


Leon and Sara both get the same answer.
What numbers could they have started with?


Q25.
Kim has some rectangular tiles.
Each one is $\mathbf{4}$ centimetres by 9 centimetres.


She makes a design with them.


Calculate the width and height of her design.


Q26.
Here is the cost of pizzas.

| PIZZAS |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Small | Medium |  |  |
| Ham | $£ 4.20$ | $£ 5.50$ |  |  |
| Salami | $£ 4.40$ | $£ 5.75$ |  |  |
| Mushroom | $£ 4.50$ | $£ 6.00$ |  |  |
| Cheese | $£ 3.80$ | $£ 4.95$ |  |  |
| Tuna | $£ 4.25$ | $£ 5.40$ |  |  |
| Extra tomato |  |  |  | 50 p |
|  | Extra cheese | 60 p |  |  |

Jill orders one small cheese pizza with extra tomato.
What is the total cost?


1 mark
Ben buys one small pizza and one medium pizza. They cost him £10

Which two could they be?
one small $\qquad$ pizza
and one medium $\qquad$ pizza

Q27.
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.


