Year 5 Multiplication and Division

Q1.					
	The numbers in this sequence increase	se b	y 10	each	time.

3 13 23 ...

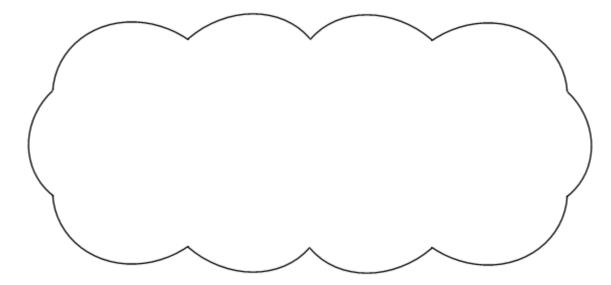
The sequence continues in the same way.

Write two numbers from the sequence that add to make a total of 96



1 mark

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



1 mark

Q2.

Fill in the three missing whole numbers in this calculation.

Each number is less than 10

1 mark

Q3.

The factors of 11 sum to 12

Write the other number whose factors sum to 12



1 mark

Q4.

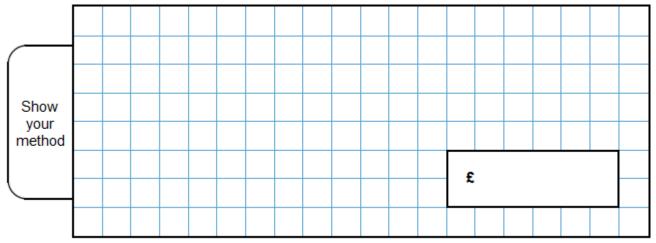
Lara had some money.

She spent £1.25 on a drink.

She spent £1.60 on a sandwich.

She has **three-quarters** of her money left.

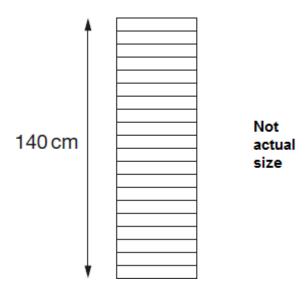
How much money did Lara have to start with?



2 marks

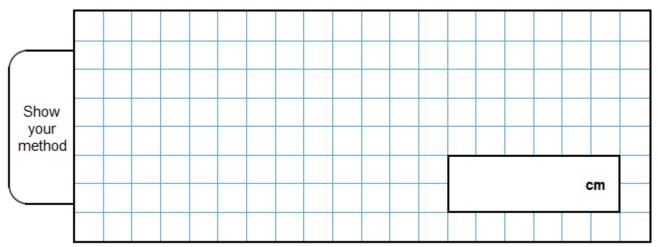
Q5.

A stack of 20 identical boxes is 140 cm tall.



Stefan takes three boxes off the top.

How tall is the stack now?



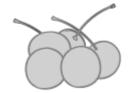
2 marks

Q6.

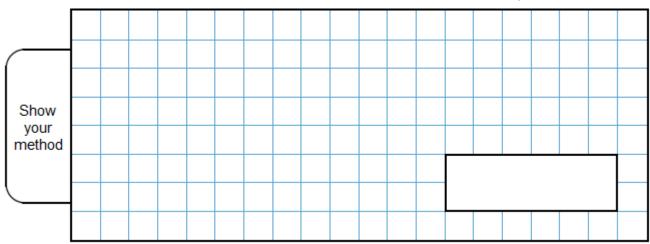
Seb had some cherries.

Every day he ate 10 cherries and gave 5 away.

After he gave the last 5 cherries away, he had eaten 40 cherries altogether.



How many cherries did Seb have at the start?



Q7. A spoonful is **5ml.**



How many spoonfuls can you get from this bottle?

1 mark

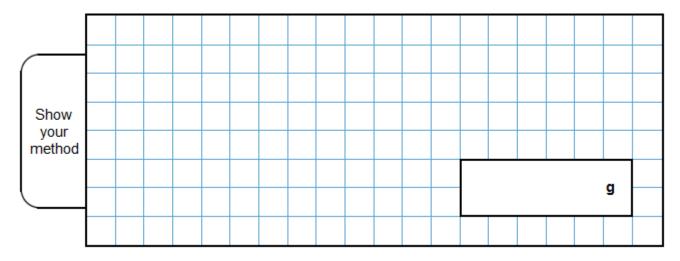
Q8.Here are the ingredients for chocolate ice cream.

cream	400 ml	
milk	500 ml	
egg yolks	4	
chocolate	120 g	
sugar	100 g	



Stefan has only 300 ml of cream to make chocolate ice cream.

How much **chocolate** should he use?



2 marks

Q9.

Large pizzas cost £8.50 each.

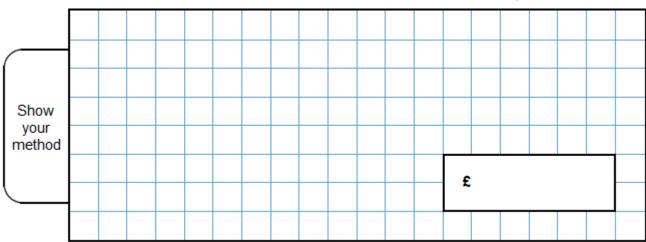
Small pizzas cost £6.75 each.

Five children together buy one large pizza and three small pizzas.

They share the cost equally.

How much does each child pay?

Upton Junior School



2 marks

Q10.

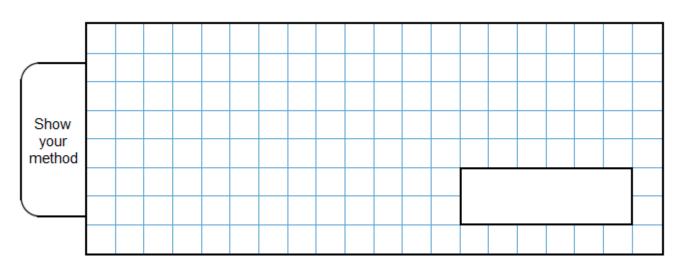
Lara chooses a number less than 100

She divides it by 3 and then subtracts 11

She then divides this result by 2

Her answer is 10.5

What was the number she started with?



2 marks

Q11.

Amir says,

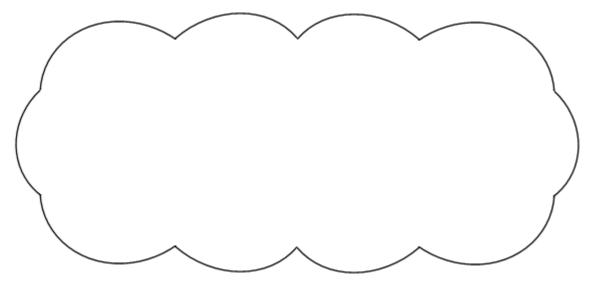
'All numbers that end in a 4 are multiples of 4'.



Is he correct?
Circle **Yes** or **No**.

Yes / No

Explain how you know.



1 mark

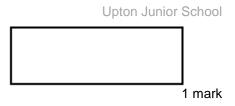
Q12.



Chris saves 50p coins.

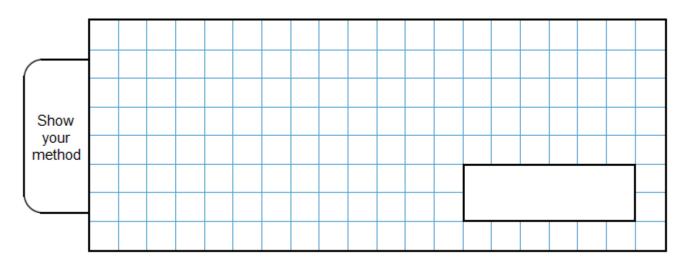
He has saved 45 of them.

How much money has Chris saved?



Michelle has saved £8.40 in 20p coins.

How many 20p coins does Michelle have?



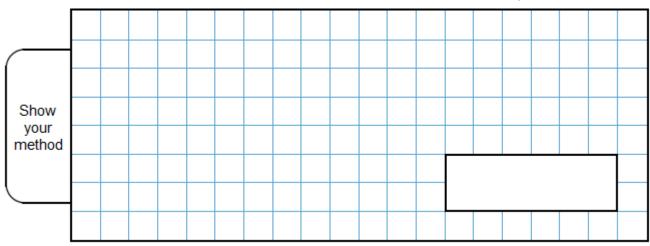
2 mark

Q13.
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?



Q14.

Olivia buys three packets of nuts.







She pays with a £2 coin.

This is her change.



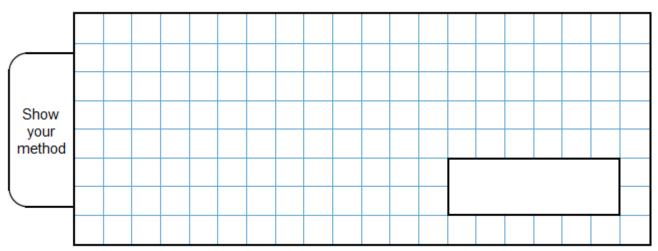








What is the cost of **one** packet of nuts?



2 marks

Q15.

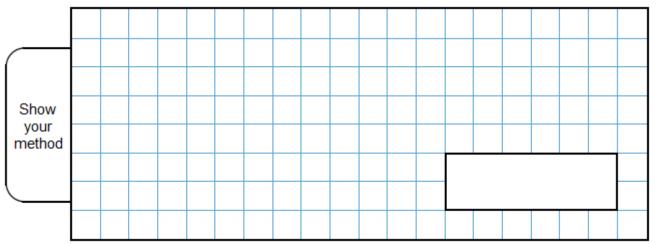
A gardener plants tulip bulbs in a flower bed.

She plants 3 red bulbs for every 4 white bulbs.

She plants 60 red bulbs.



How many white bulbs does she plant?



2 marks

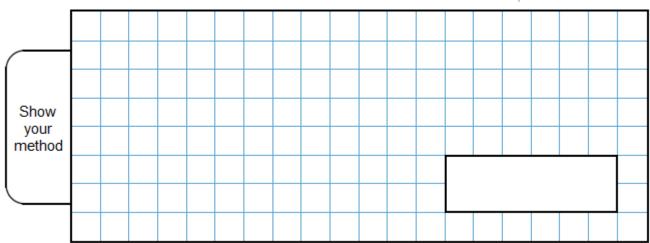
Q16.

A bag of 5 lemons costs £1

A bag of 4 oranges costs £1.80



How much **more** does one orange cost than one lemon?



Q17.

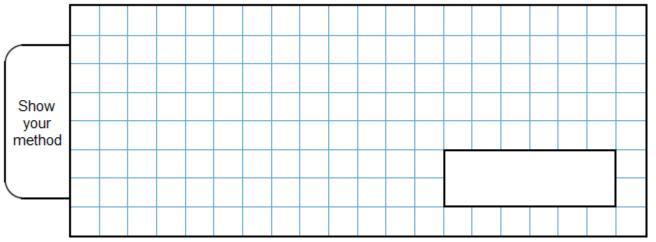
Lara chooses a number less than 20

She divides it by 2 and then adds 6

She then divides this result by 3

Her answer is 4.5

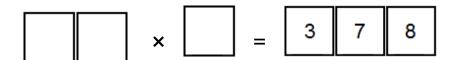
What was the number she started with?



2 marks

Q18.

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



1 mark

Q19.

Here is a number chart.

Circle the **smallest** number on the chart that is a multiple of **both** 2 and 7

71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

1 mark

Here is the same number chart.

Circle the largest number that is **not** a multiple of 2 or 3 or 5

71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

1 mark

Q20.

A shop sells jars of honey and honey dippers.



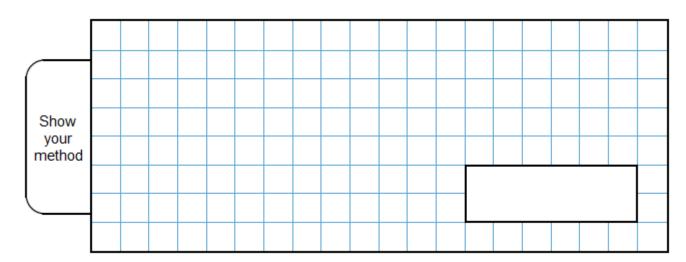


Chen bought three jars of honey and a dipper.

The total cost was £5.40

The dipper cost 75p.

How much did each jar of honey cost?



2 marks

Q21.



102 People came to the sale and paid 15p each to go in.

(a) How much money was collected at the entrance?

£

1 mark

Each car had to pay £7 to be at the sale.



The school collected £399 from the cars.

(b) How many cars were there?

1 mark

Q22.

Write the missing numbers.

			3	1	7
×				3	
	1	1	5	8	5
	6	9	5	1	0
	8	1	0	9	5

2 marks

Q23.

This is what it costs to visit a castle.

Allington C Cost per pe	
Adults	£2.45
Children	£1.30
(11 and over)	
Children	95p
(under 11)	
(1011001 11)	

Helen is 10 years 9 months old.

How much will it cost Helen to visit?



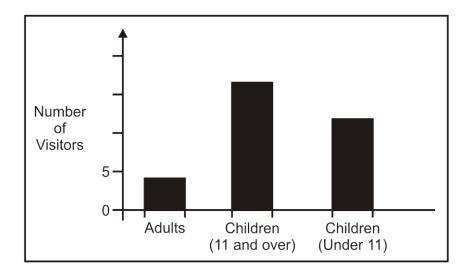
1 mark

On one day the number of visitors was

Adults	4
Children (11 and over)	16
Children (under 11)	12

Here is a graph to show the number of visitors.

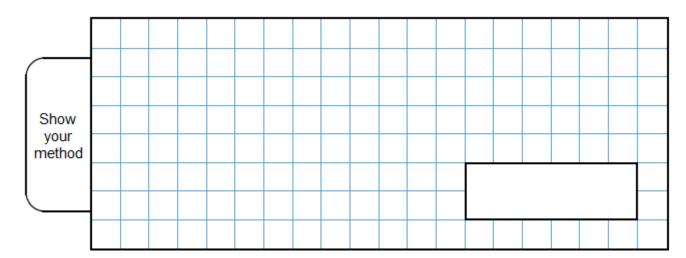
Complete the scale for the axis called "Number of Visitors".



1 mark

How much will it cost for 18 children (under 11) to visit the castle?

You **must** show your working.



1 mark

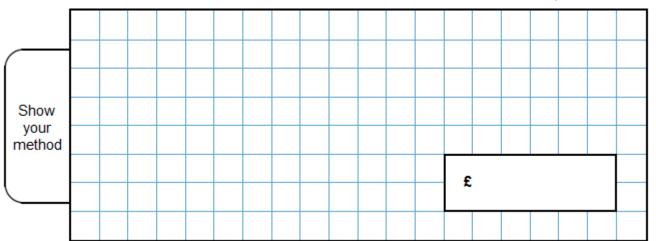
Q24.



100 adults and 80 children pay to go in.

How much money do they pay altogether?

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2 marks

Q25.

Write in the missing number.

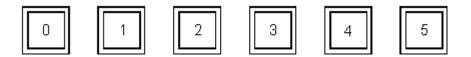


1 mark

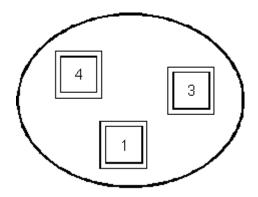
Q26.

Cards

Here are some number cards:



Joan picked these three cards:



She made the number **314** with her cards.

(a)	Make a smaller number with Joan's three cards.	
		1 mark
(b)	Make the biggest number you can with Joan's three cards.	
		1 mark
(c)	Joan made the number 314 with her three cards. Which extra card should she pick to make her number 10 times as big?	
		1 mark
	What number is 10 times as big as 314?	
		1 mark

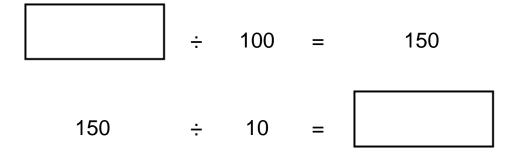
(d) Andy has these cards:



	ne number 42.5 with four of his cards. of Andy's cards to show the number 10 times as big as 42.5	 1 n
Use some	of Andy's cards to show the number 100 times as big as 42.5	
		1 n
	× 10 = 350.5	
	X 10 = 330.3	
460	÷ = 4.6	
2.3	x = 2,300	
		2 m
nplete these	calculations.	
15	× 100 =	
	× 10 = 1500	

Q27.

Q28.



Q29.

Here are five number cards.

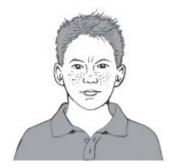


Use four of the cards to complete these calculations.

1 mark

Q30.

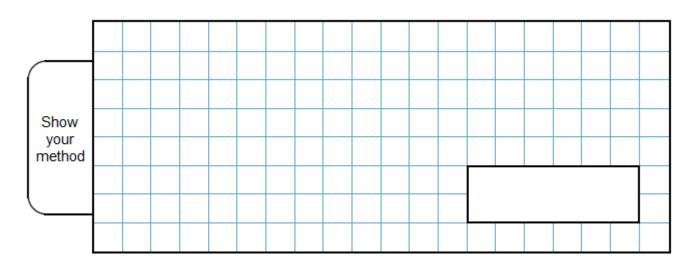
Liam thinks of a number.



He divides it by 9 and then adds 25 to the result.

His answer is 36

What number did Liam start with?



2 marks

Q31.Josh thinks of a number.



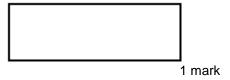
He adds 4

He multiplies his result by 3

Then he takes away 9

His final answer is 90

What number did Josh start with?



Q32.

The numbers in this sequence increase by 3 each time.

3

6

9

12 ...

The numbers in this sequence increase by 5 each time.

5

10

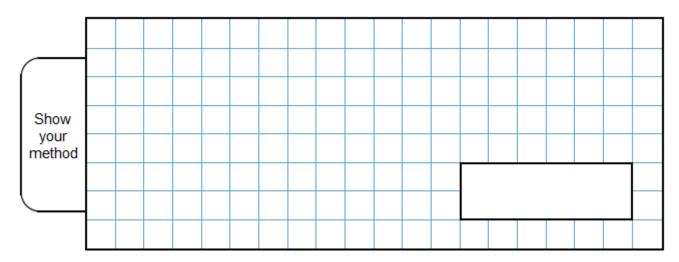
15

20

) ..

Both sequences continue.

Write a number greater than 100 which will be in both sequences.

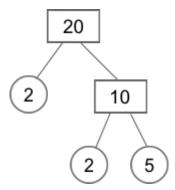


2 marks

Q33.

Any number can be written as a product of its prime factors, for example:

$$20 = 2 \times 2 \times 5$$

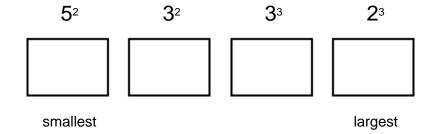


90	=			
30	_			

1 mark

Q34.

Put these values in order with the smallest first



1 mark

Q35.

Write a cross on the numbers that are <u>not</u> square numbers.

- 12
- **2**³
- **3**³
- **4**3
- **5**³

1 mark

Q36.

Circle the **two** prime numbers.

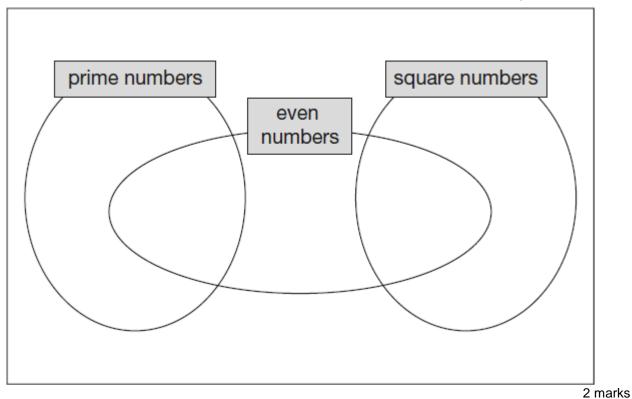
- 29
- 39
- 49
- 59
- 69

1 mark

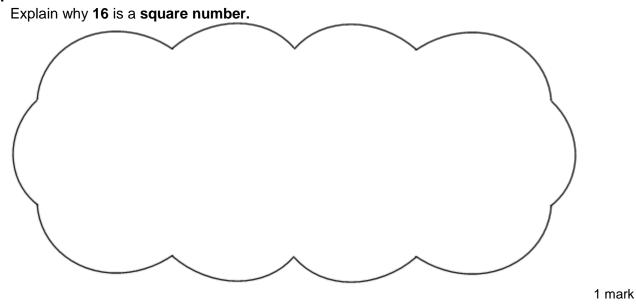
Q37.

Write each number in its correct place on the diagram.

- 16
- 17
- 18
- 19



Q38.



Q39.

Emma thinks of two **prime** numbers.

She adds the two numbers together.

Her answer is 36

Q40.

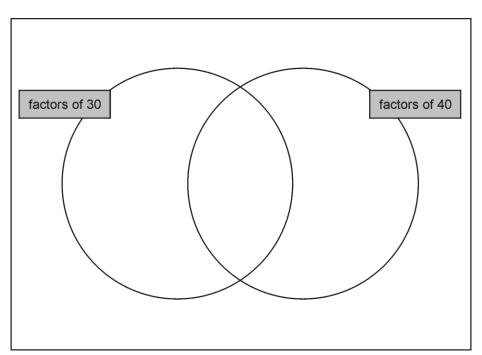
Find two **square numbers** that total 45

1 mark

Q41.

Write these numbers in the correct places on the diagram.

5 6 7 8



2 marks