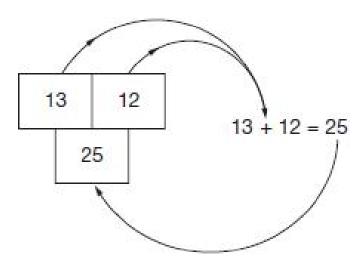
L6 Booster Working with Number

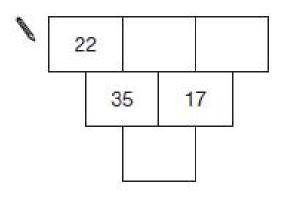
M:	am	•								
1 4	alli	•								

Date: _____

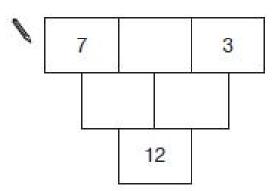
15. In these number grids, two numbers are added to give the number below. Example:



Write numbers in the number grids below to make them correct.



1 mask



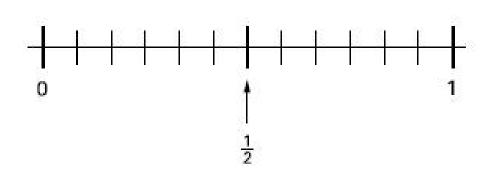
1 mass

10. (a) Look at these fractions.

1 3

Mark each fraction on the number line.

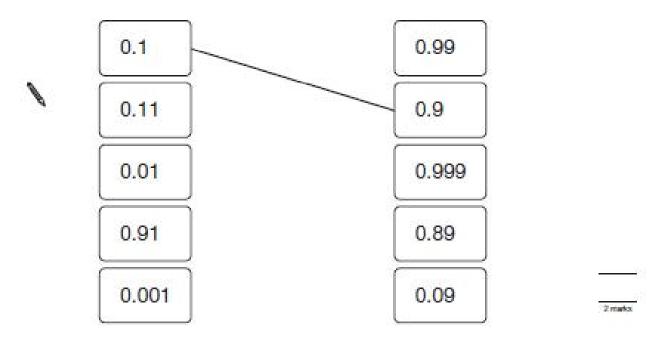
The first one is done for you.



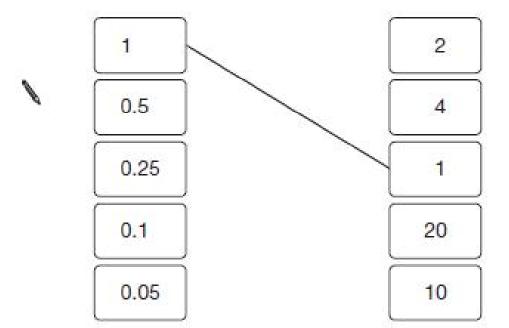
1 mark

(b) Fill in the missing numbers in the boxes.

Join all the pairs of numbers that add together to equal 1
 The first one is done for you.

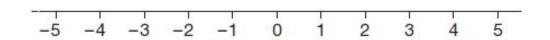


(b) Now join all the pairs of numbers that multiply to equal 1.
The first one is done for you.



2 marks

2. Here is a number line.



It can help you work out the answers to the calculations below.

The first one is done for you.

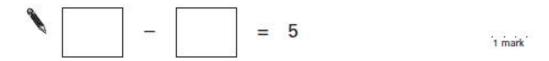
$$-3 + 1 = -2$$

Write two numbers that add to 10

One of the numbers must be positive.

The other number must be negative.

14. Fill in the missing numbers in the boxes using only negative numbers.



Write the missing numbers in the boxes.

Calculator not allowed

16. (a) Write the correct numbers in the gaps below.

$$1 \times 3\frac{1}{2} = 3\frac{1}{2}$$

$$2 \times 3\frac{1}{2} = 7$$

$$3 \times 3\frac{1}{2} = 10\frac{1}{2}$$

$$4 \times 3\frac{1}{2} =$$

$$5 \times 3\frac{1}{2} =$$

$$6 \times 3\frac{1}{2} = 21$$

Use the table to help you work out this calculation.

$$60 \times 3\frac{1}{2} =$$

- (b) Is the answer to $11 \times 3\frac{1}{2}$ a whole number?
- Yes No

Explain your answer.

1 mark

20. Work out

$$\frac{1}{4} + \frac{1}{3} =$$

truck

1 mark

$$\frac{3}{5}$$
 - $\frac{1}{15}$ =

Look at the calculation below.

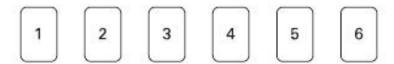
Write the correct digits in the boxes.

Calculator not allowed

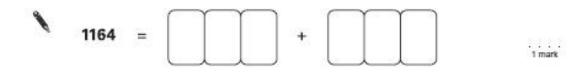
2 marks



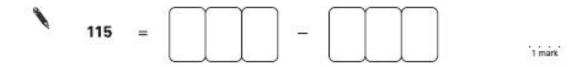
20. Here are six number cards.



(a) Arrange these six cards to make the calculations below. The first one is done for you.

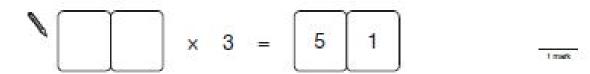


(b) Now arrange the six cards to make a difference of 115





The first one is done for you.



(a) Henry thinks of a number between 1 and 20 He thinks of the number 12

For each question below, tick (✓) Yes or No for Henry's number.

		Yes	No
1	Is it an even number?		
	Is it a multiple of 3?		
	Is it a factor of 18?		

(b) Ashraf also thinks of a number between 1 and 20 The table shows information about his number.

1	Yes	No
Is it an even number?		√
ls it a multiple of 3?	✓	
ls it a factor of 18?		1

What is Ashraf's number?

11.	Work	out	the	foll	owing
-----	------	-----	-----	------	-------

1.2 × 6

·	1 mark	

1.2 ÷ 6

e :-	16
	Τ΄
*	1 mark

10. Lisa uses a grid to multiply 23 by 15

×	20	3
10	200	30
5	100	15

Answer: 345

Now Lisa multiplies two different numbers.

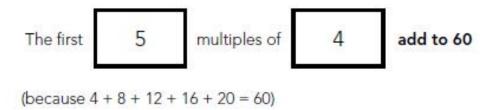
Complete the grid, then give the answer below.

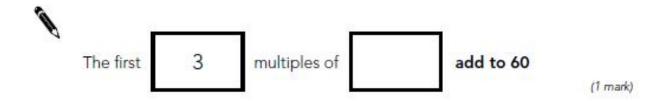
	×	<u> </u>	40	3
	30		/s c	:
332	97	600		18

Answer:	
1401306000000000000000000000000000000000	 -

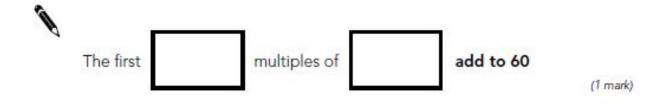
Work out the missing numbers below.

The first one is done for you.





Now use different numbers to complete the sentence below.



For each sequence below, tick (<) the correct box to show 26. if it is increasing, decreasing or neither.

-					increasing	decreasing	neither	
	1 2	1/3	$\frac{1}{4}$	<u>1</u> 5				
	6 13	7 12	8	9				
	1 2	2/4	<u>3</u>	4 8				
	3 2	4/3	<u>5</u>	6 5				9 marks

Look at this information.

$$\frac{27}{40} = 0.675$$

$$\frac{29}{40} = 0.725$$

Use this information to write the missing decimals below.

1 mark

1.mask:

11. Fill in the missing numbers.

$$\frac{1}{2}$$
 of 20 = $\frac{1}{4}$ of

$$\frac{3}{4}$$
 of 100 = $\frac{1}{2}$ of

$$\frac{1}{3}$$
 of 60 = $\frac{2}{3}$ of

15. (a)	Put these values in order	r of size with t	ne smallest firs	L	
\	5 ²	32	3 ³	2 ⁴	
	smallest		(2)	largest	2 marts
(b)	Look at this information.	5 ⁵ is	3125		
\	What is 5 ⁷ ?				

28. Show that the difference between 32 and 33 is 18

1 mark

12. (a)	Two numbers multiply together to make -15					
	They add together to make 2					
	What are the two numbers?					
	and	i mark				
(b)	Two numbers multiply together to make -15,					
	but add together to make -2					
	What are the two numbers?					
	and	1 mark				
(c)	Two numbers multiply together to make 8,					
	but add together to make -6					
	What are the two numbers?					
	and	i mark				
(d)	The square of 5 is 25					
	The square of another number is also 25					
	What is that other number?					

Here are three number cards.
 The numbers are hidden.

? ? ?

The mode of the three numbers is 5
The mean of the three numbers is 8

What are the three numbers? Show your working.

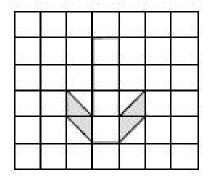
2 marks

On a farm 80 sheep gave birth.

30% of the sheep gave birth to two lambs.

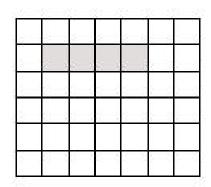
The rest of the sheep gave birth to just one lamb.

In total, how many lambs were born? Show your working. 13. (a) What fraction of this shape is shaded?
Write your fraction as simply as possible.



Timark

(b) What percentage of this shape is shaded?



1 mark

(c) Which shape has the greater percentage shaded?

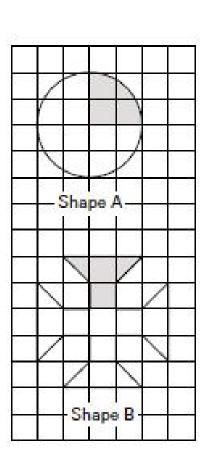
Tick (✔) the correct box.

Shape A

Shape B

Both the same

Explain how you know.



1 mark

14. (a) Write the missing numbers.

(b) Work out 56% of 80
You can use part (a) to help you.

	14.	a)	Work	out	5%	of	360
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1 mark

(b) Work out 15% of 360

You can use part (a) to help you.

