### Monday 29<sup>th</sup> June 2020 Y4 Maths

Good morning Y4s. I hope you had a good weekend.

Today, I would like you to do the final part of your assessment - Reasoning Paper 2

Please complete the questions below independently. An adult can read the questions to you (but not the numbers or symbols).

There are 22 questions altogether. They get progressively harder. See how many you can complete in 40 minutes.

**Don't forget** to read the questions carefully and try to understand what they are asking before deciding which calculations you will need to solve them.

Use jottings – especially bar models - to help you. Remember, you get points for working out (even if you don't get the final answer right).

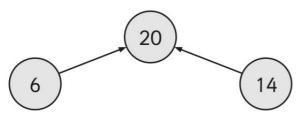
Good luck. The answers are at the end – no peeping! Please let me know how you got on.

### Here are the names of the characters in the questions



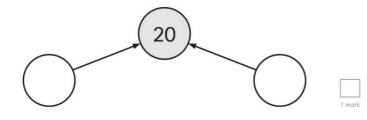
If you finish early, check **MyMaths** and **Sumdog** for unfinished tasks or practise the **times tables check at timestables.co.uk**  Question

### Look at the **number diagram** below.

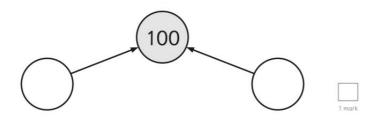


The bottom two numbers are added together to give the number on the top.

Write **two different numbers** on the diagram below that **add** together to make 20.



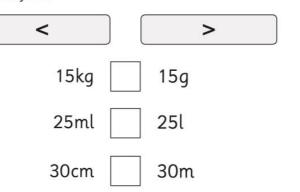
Complete the diagram below.



Questi	
0	
-	

Draw the correct **sign** in **each** box.

Choose from:

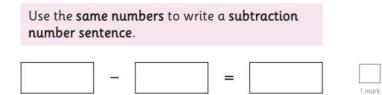


1 mark

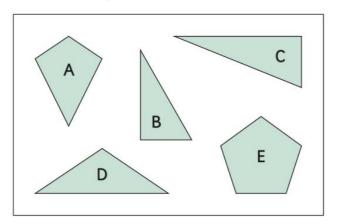


Look at the number sentence below.

36 + 25 = 61

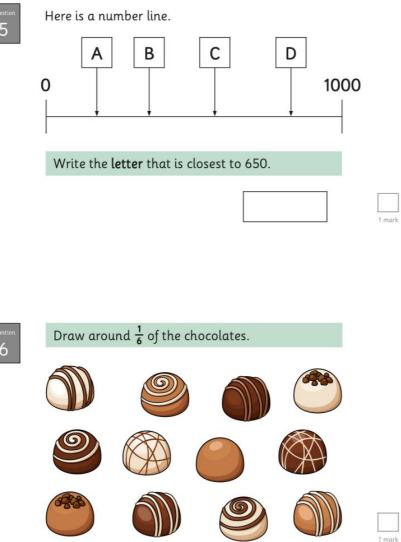


### Look at the shapes below.



Write the  $letters\ of\ all$  the shapes that have a right angle.

	1 mark
Complete the sentences.	
Shape <b>A</b> is called a .	
Shape <b>E</b> is called a .	2 marks



Question

### Look at the clock.



What time is shown on the clock?

What time will it be when 20 **minutes** have passed?

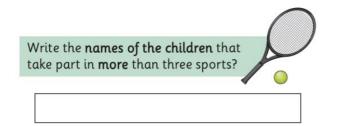


1 mark

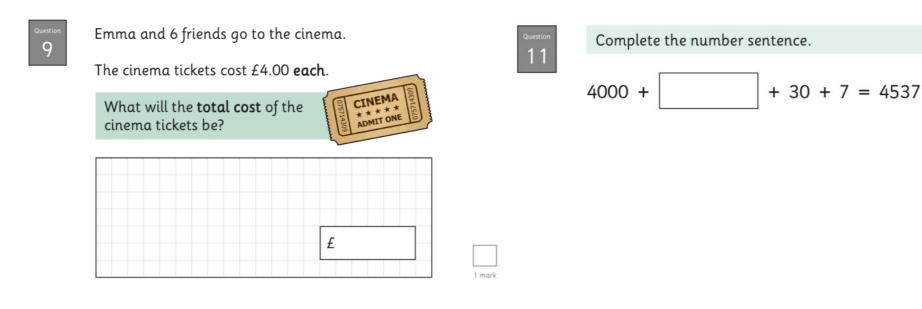
1 mark

Look at the table below. It shows the sports that some children play at school.

	Football	Hockey	Netball	Rugby	Tennis
Emma	~	~	~	x	1
Harry	~	x	~	$\checkmark$	х
Ling	~	~	x	~	<b>v</b>
Malik	~	~	x	$\checkmark$	<i>√</i>
Tom	x	х	~	$\checkmark$	х



1 mark

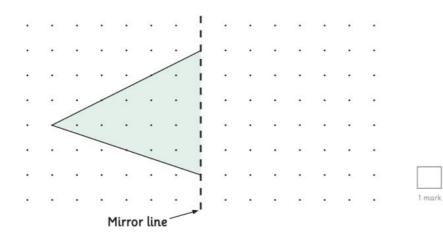


1 mark



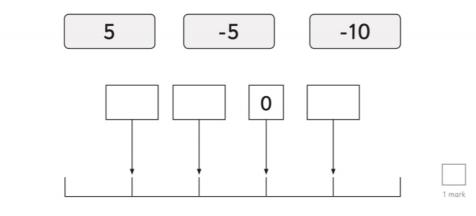
# Draw the **reflection** of the triangle in the mirror line.

### Use a ruler.



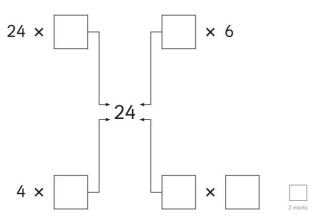
Question

Use the numbers on the digit cards to complete the number line.



## Question

# Use **different numbers** in **each** box to complete the diagram below.



Question

### Look at the shapes.

A fraction of each shape is shaded.

Match each shape to its equivalent fraction.

One has been done for you.

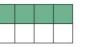


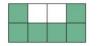
<u>3</u> 8

 $\frac{2}{4}$ 

<u>3</u> 4

1 mark





Question	Complete the number se	entences below.	
	25 × 10 =	]	
	25 ÷ 10 =	]	2 marks
Question	Complete the table.		
	Complete the table.	Decimal	
		Decimal 0.5	
	Fraction		
	Fraction	0.5	2 marks

Ques	
1	7
	/

Look at the shapes on the 1cm square grid below.

		С
A	B	
	E	
D	E	

 $\rm cm^2$ 

What is the **area** of shape B?

Which shape has the **largest area**?

Question The table below shows the cost of some sportswear. Biking equipment Helmet Glasses Shirt Gloves £14.25 £5.75 £6.95 £3.85 Emma spent £9.60 Which **2** items did she buy? and 1 mark Malik buys a shirt and a pair of gloves. He pays with a £20 note. 1 mark How much **change** will he get? £ 2 marks 1 mark



### A sheet has 70 stickers on it. 9 children take 4 stickers **each**.

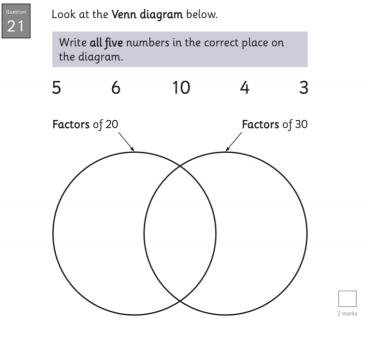


2 marks

1 mark

stickers

How many **stickers** are left on the sheet?





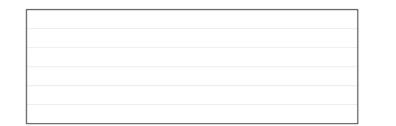
Emma said 
$$\frac{2}{4} + \frac{2}{4} = \frac{4}{8}$$

True or false?

Circle the correct answer.

True/false

Explain how you know this.

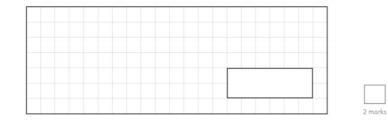




### Malik chooses a number.

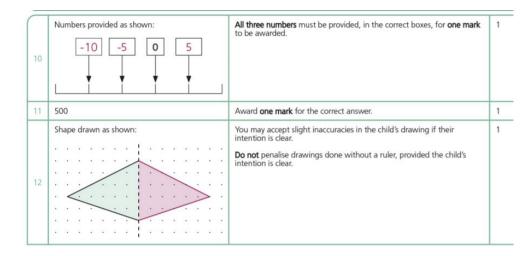
He adds 14 to the number. Then, he divides his answer by 2 and adds 2. His answer is 16.

### What was the number he **started** with?



#### Answers

		1			Answer	Marking guidance	Marks
	A number of combinations are possible. For example:	Award <b>one mark</b> for any combination of two numbers (not 6 and 14) that add together to make 20. Any of the following combinations are acceptable: • 20 + 0/0 + 20 • 1 + 19/19 + 1 2 + 18/18 + 2 • 3 + 17/17 + 3 • 5 + 15/15 + 5 • 7 + 13/13 + 7 • 8 + 12/12 + 8 • 9 + 11/11 + 9 • 10 + 10	1	4	B and C or B/C or B, C Shape A is called a kite.	Award <b>one mark</b> for the correct answer. You may award the mark for an answer that has been written in either lower or upper case letters. Both names must be provided, in the correct boxes, for <b>two marks</b> to be awarded.	2
1	A number of combinations are possible. For example:	Award <b>one mark</b> for any <b>combination of two numbers</b> that add together to make 100. Here are a just a few acceptable combinations: • $100 + 0/0 + 100$ • $10 + 90/90 + 10$	1	5	Shape E is called a pentagon.	Award <b>one mark</b> for <b>each</b> correct answer. Award <b>one mark</b> for the correct answer. You may award the mark for an answer that has been written in either lower case or upper case letters.	1
	50 50	• $20 + 80/80 + 20$ • $30 + 70/70 + 30$ • $40 + 60/60 + 40$ • $50 + 50$ or • $95 + 5/5 + 95$ • $25 + 75/75 + 25$ • $55 + 45/45 + 55$		6	2 chocolates drawn around. For example:	<ul> <li>2 chocolates must be indicated for one mark to be awarded.</li> <li>Any 2 chocolates can be indicated.</li> <li>You may accept any other clear way that the child has indicted 2 chocolates (e.g. a tick, a cross, a line through them).</li> </ul>	1
2	Signs used as shown: 15kg > 15g 25ml < 25l	All three signs must be provided, in the correct boxes, for one mark to be awarded.	1				
	30cm < 30m			7	2:45 or quarter to 3 or 14:45	You may award <b>one mark</b> for any unambiguous indication of the correct answer (e.g. 2:45am, 2:45pm, 14:45pm, 45 minutes past 2, 15 minutes to 3, 2:45, 02:45, 2:45, 2;45, 0245, 2:45).	1
	Numbers used as shown: 61 - 25 = 36	Award <b>one mark</b> for either correct answer. The child must have used the numbers: <b>36, 25</b> and <b>61</b> correctly for <b>one mark</b> to be awarded.	1		5 past 3 or 3:05 or 15:05	You may award <b>one mark</b> for any unambiguous indication of the correct answer (e.g. 3:05am, 3:05pm, 15:05pm, 5 minutes past 3, 3.05, 03:05, 3-05, 3,05, 0305, 3 05).	1
3	Or 25 50	Une mark to be antificed.		8	Emma, Ling and Malik	All three names must be provided, in any order, for <b>one mark</b> to be awarded.	1
	61 - 36 = 25			9	£28	Award <b>one mark</b> for any unambiguous indication of the correct answer (e.g. £28.00p, £28.00, twenty eight, £28,00, £28:00, £28:00, £28:00).	1



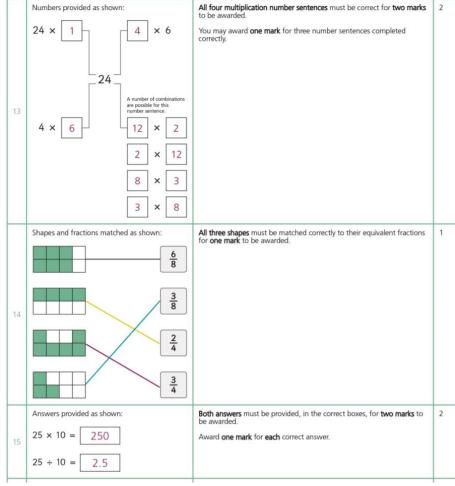


Table completed as shown:		vn:	All four answers must be provided, in the correct boxes, for two marks to be awarded.	2
	Fraction	Decimal	You may award <b>one mark</b> for two or three correct answers.	
	$\frac{1}{2}$	0.5		
16	<u>1</u> 0.25			
	<u>3</u> 4	0.75		
	<u>1</u> 10	0.10		
_	12cm <sup>2</sup>		Award <b>one mark</b> for the correct answer.	1
17	E		Award one mark for the correct answer.	1
			You may award the mark for an answer that has been written in either lower case or upper case letters.	

	Glasses and gloves or	Both answers must be provided, in any order, for one mark to be awarded.	1
	£5.75 and £3.85	You may accept any other clear way that the child has indicated the correct items (e.g. pictorial representation in the answer boxes).	
18		For example: And the second se	
	£9.20 or £9.20p or 9.20	Award <b>two marks</b> for any unambiguous indication of the correct answer (e.g. £9.20p, £9,20, £9:20, £9-20, £0920, £9 20; with a clear space between the 9 and the 20).	2
		If the child's answer is incorrect, you may award <b>one mark</b> for evidence of appropriate working out.	
	34 stickers	Award <b>two marks</b> for the correct answer.	2
19		If the child's answer is incorrect, you may award <b>one mark</b> for evidence of appropriate working out.	
	True/ false	Award <b>one mark</b> for an answer that demonstrates the child understands how to add fractions with the same denominator.	1
20		For example:	
20		% is the wrong answer because:	
		$\frac{2}{4} + \frac{2}{4} = \frac{2+2}{4} = \frac{4}{4}$ or 1	
	Venn diagram completed as shown:	All five numbers must be placed correctly in the Venn diagram for two marks to be awarded.	2
	5 6 10 4 3 Factors of 20 Factors of 30	You may award <b>one mark</b> for three or four numbers placed correctly.	
21	5 6		
	14	Award <b>two marks</b> for the correct answer.	2
		If the child's answer is incorrect, you may award <b>one mark</b> for evidence of appropriate working out.	
		If the child's answer is incorrect, you may award the mark if they have demonstrated that they can work backwards using inverse operations (e.g.	
22		16 - 2 = 14 $14 \times 2 = 28$	
22		28 – 14 = wrong answer	
22		28 – 14 = wrong answer or	