### Monday 22<sup>nd</sup> June Y4 Maths

In Maths today I would like you to complete this Reasoning paper.

Try to answer as many questions as you can by yourself. (You can ask an adult to read the question for you as long as they don't read the numbers or maths symbols like +, -, x,  $\div$ , =, > or <).

Miss out any questions that you find difficult and come back to them at the end.

Remember, you must read the question carefully and make sure that you understand what it is asking before you start.

There are 23 questions and you can take as long as you like but I would like to know how many you could answer in the first 40 minutes. If you finish early, don't forget to go back and check that you have answered them all.

It would also be really useful to know which ones you found hard. (The answers are at the end – no peeping!!!)



These three characters appear in the questions.

Question

Fill in the **three** missing numbers to complete the **sequence**.

|--|

Question 2 Look at the numbers in the table below. Some are **odd** and some are **even**.

Draw a circle around the two numbers that are in the wrong place.

Odd numbers			Eve	<b>n</b> numb	oers
43		36	40		25
	15			36	
13		9	52		14



Jack put 5 pencils in each pencil pot.



How many **pencils** are there **altogether**?



pencils

1 mark

Question
4

Look at the number sentences below.

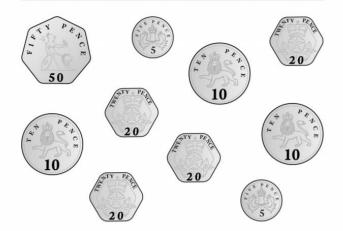
For each sentence, put a tick (/) if it is correct. Put a cross (x) if it is incorrect.

$$2 \times 8 = 8 \times 2$$



Emma and Malik share these coins between them so they both get the same amount of money.

#### Draw around the coins that Malik could have.



Question 6

Write these numbers in **order** from largest to smallest.

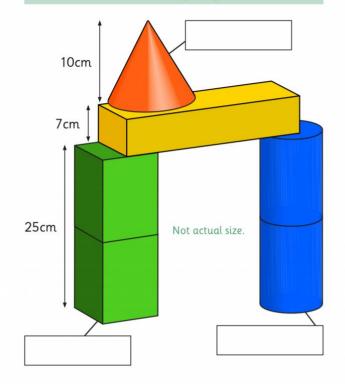
889 898 989 998 988

Largest Smallest

Question 7

Jack has built a tower using some **3-D** shapes.

### Name each shape in the space provided.



Look at the **measurements** on the tower.

How tall is Jack's tower in total?

cm

Here are four digit cards.

7

6

9

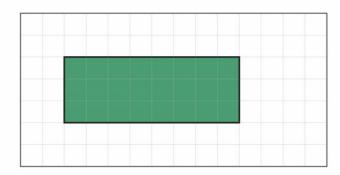
5

Use all four cards to make these number sentences correct.

$$\times 3 = 21$$

Question

Here is a rectangle on a centimetre square grid.



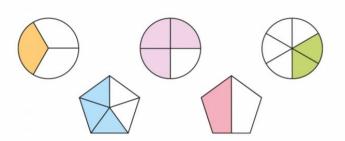
What is the **perimeter** of the rectangle?

cm

1 mark

Question 10

Put a tick next to **all** of the shapes that have  $\frac{1}{3}$  shaded.

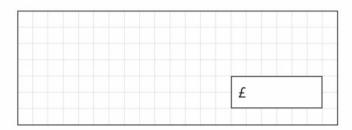


Malik has £50.

He buys a shirt for £16 and a pair of shorts for £19.



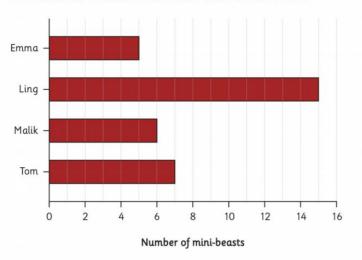
How much money will Malik have left?



Circle the number that is closest to 1000.

995 1003 996 1009 990

The bar chart below shows how many mini-beasts the children collected on their mini-beast hunt.



How many mini-beasts did Emma collect?

mini-beasts

1 mark

How many more mini-beasts did Ling collect than Tom?



mini-beasts



Write the missing numbers in the boxes.

2 marks

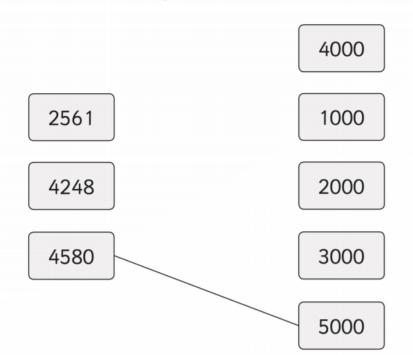
Question 15 Complete the multiplication table.

×	3	8	2
	12	32	
6		48	12
7	21		14

Question

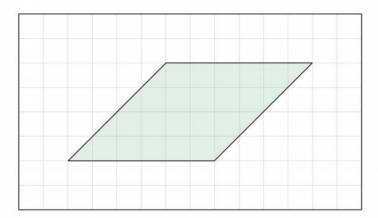
Draw a line to match **each** number to the nearest **thousand**.

One has been done for you.





## Look at the shape on the grid below.



# Circle true **or** false for **each** statement.

This shape has **no right angles**. True/false

This shape is a **quadrilateral**. True/false

This shape has **two pairs of parallel sides**. True/false

This shape is a **kite**. True/false

Question

### Write each 12-hour time as a 24-hour time.

One has been done for you.

12-hour clock time	24-hour clock time
1:25 <b>pm</b>	
4:30pm	16:30
9:15 <b>pm</b>	
	03:40

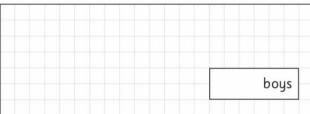


There are 1426 children in a school.

727 of the children are girls. The rest are boys.

How many **boys** are in the school?





mark

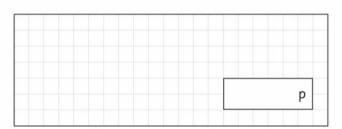
Question 20

Malik buys 2 bananas. The bananas cost the same price.



He pays with a £5 note and gets £3.60 change.

What is the cost of 1 banana?



Question 21

Here is a table showing the **temperatures** in different cities at the start of the week.

	Monday	Tuesday	Wednesday
London	8°C	5°C	3°C
Cardiff	2°C	3°C	6°C
Edinburgh	0°C	-2°C	-7°C
Belfast	1°C	-3°C	-5°C

Which city	had the	lowest to	emperature?
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	1 marl

How much **warmer** was it in London than Belfast on Tuesday?

°C	
	1 ma

# Write the missing **numbers** in the boxes.

Question 23

Here are four lengths.

20mm

15cm

 $\frac{1}{2}$  m

1.5cm

Write them in **order** from shortest to longest.

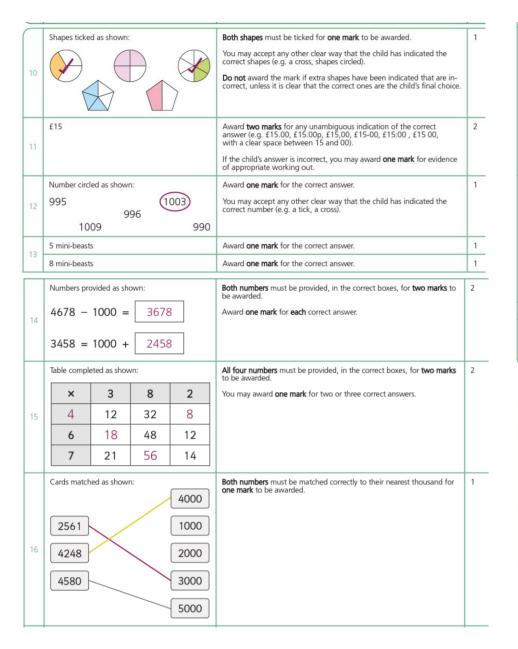
Shortest

Longest

#### Answers

	Numbers provided as shown:	All three numbers must be provided, in the correct boxes, for one mark to be awarded.	1
1	30 40 50 60 70 80 90		
	Numbers circled as shown:	Both numbers must be circled for one mark to be awarded.	1
2	Odd numbers Even numbers	You may accept any other clear way that the child has indicated the correct numbers (e.g. a tick, a cross).	
	43 36 40 25	<b>Do not</b> award the mark if extra numbers have been indicated that are incorrect, unless it is clear that the correct ones are the child's final choice.	
	15 36		
	13 9 52 14		
3	25 pencils	Award <b>one mark</b> for the correct answer.	1
	Number sentences ticked and crossed as shown:	All four answers must be correct for one mark to be awarded.	1
	10 + 8 = 8 + 10		
4	10 - 8 = 8 - 10		
	16 ÷ 2 = 2 ÷ 16 🔀		
	2 × 8 = 8 × 2		
	Any of the following combination of coins:	Award <b>one mark</b> for any combination of coins that have been circled to make 85p.	1
5	<ul> <li>50p, 20p, 10p, 5p</li> <li>50p, 10p, 10p, 10p, 5p</li> </ul>	You may accept any other clear way that the child has indicated the correct answer of 85p (e.g. a tick, a cross).	
	• 20p, 20p, 20p, 20p, 5p • 20p, 20p, 20p, 10p, 10p, 5p	<b>Do not</b> award the mark if extra coins have been indicated that are incorrect, unless it is clear that the correct ones are the child's final choice.	

6	Numbers ordered as shown:           998         989         988         898         889           Largest         Smallest	Award <b>one mark</b> for the correct order.  If the child has got muddled and accidentally written the numbers from largest to smallest and changed the labels under the first and last box, to match their order, <b>one mark</b> may be awarded.	1
7	Names provided as shown:  cone  cone  Not actual size.  cuboid  cylinder	All three shape names must be provided, in the correct boxes, for two marks to be awarded.  You may accept any reasonable or phonetic attempt at the spellings.  You may award one mark for two correct shape names provided.	2
Ш	42cm	Award <b>one mark</b> for the correct answer.	1
8	Numbers provided as shown: $5 \times \boxed{9} = 45$ $\boxed{7} \times 3 = 21$ $35 \div \boxed{5} = 7$ $30 \div \boxed{6} = 5$	All four numbers must be provided, in the correct boxes, for two marks to be awarded.  You may award one mark for two or three correct answers.	2
9	22cm	Award <b>one mark</b> for the correct answer.	1



	Answers circled as show	n:	All of the correct answers must be circled for two marks to be awarded.	2
17	This shape has no right angles.  True false  This shape is a quadrilateral.  True false		You may award <b>one mark</b> for two or three correct answers.	
	This shape has two pairs	of parallel sides.		
	This shape is a kite. True/ false			
	Table completed as shown:		All three digital times must be provided, in the correct boxes, for two marks to be awarded.	2
	12-hour clock time	24-hour clock time	You may award <b>one mark</b> for two correct answers.	
	1:25 <b>pm</b>	13:25		
8	4:30pm	16:30		
	9:15 <b>pm</b>	21:15		
	3:40am	03:40		
19	699		Award <b>one mark</b> for the correct answer.	1
20	70p		Award <b>two marks</b> for any unambiguous indication of the correct answer (e.g. seventy p, seventy pence, £0.70, £00.70).	2
·U			If the child's answer is incorrect, you may award <b>one mark</b> for evidence of appropriate working out.	

	Answer	Marking guidance	Mark
	Edinburgh	Award <b>one mark</b> for the correct answer.	1
21	8°C	Award <b>one mark</b> for the correct answer.	1
	Numbers provided as shown:	<b>Both numbers</b> must be provided, in the correct boxes, for <b>two marks</b> to be awarded.	2
22	34 ÷ 6 = 5 remainder 4	Award <b>one mark</b> for <b>each</b> correct answer.	
	47 ÷ 11 = 4 remainder 3		
	Lengths ordered as shown:	Award one mark for all four lengths ordered correctly.	1
23	1.5cm 20mm 15cm ½m	You may award <b>one mark</b> for the correct order of any lengths that have been converted to equivalent units (e.g. 1.5cm, 2cm, 15cm, 50cm).	
	Shortest Longest		