

KEY STAGE 2 MATHEMATICS

SET A

PAPER 3 (REASONING)





First Name	
Last Name	

Total Marks

35

1. Complete the number sorting table below.

Marks

One has been done for you.

6
-

	Multiple of 4	Not a multiple of 4
Multiple of 6	24	
Not a multiple of 6		

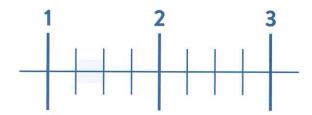
2. Below is a magic square. In a magic square, each row, column and diagonal add up to the same number.

Calculate the two missing values and write them in the magic square.



	1 12	1 2
1 4	<u>5</u> 12	7 12
1 3	5	1 6

3. Part of this number line is shaded.



Circle all of the numbers that belong within the shaded section of the number line.

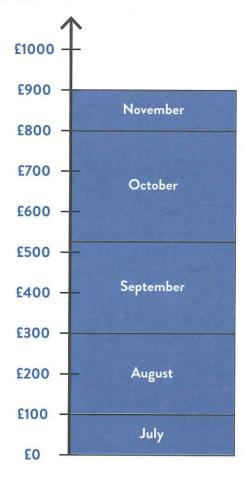


1.05 1.4 $1\frac{1}{3}$ $1\frac{1}{5}$

4. A church group is aiming to collect £1,000 in the last six months of the year.

Marks

The chart below shows how much has been raised by the end of November.



MIGIN

In which **single** month was **more** than £250 collected?



/1

How much money was collected in September, October and November altogether?



2

The numbers in the sequence below decrease by 17 each time.
Complete the sequence.

Marks



25

8







12

6. Below are some cards with number operations on them:

Choose two cards to complete the calculations below:



12

7. Write the number 30,508 in words.

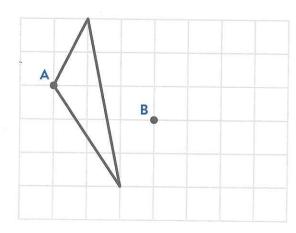


8. The triangle on the grid below is **translated** so that point A moves to point B.

Marks

Draw the triangle in its new position.



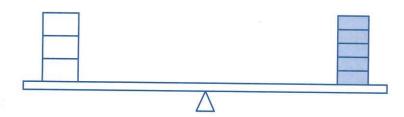


Use a ruler

1	4
1	ı

9. Three white boxes perfectly balance five blue boxes.

If each white box weighs 13.5g, how much does each blue box weigh?





Show your working.



g

12



10. Four bananas cost 84p.

Six apples cost £2.28.

How much cheaper is one banana than one apple?

Show your working.



£

12

Marks

11. Write the missing values in the sum below to make the subtraction correct.



/2

12. Two decimal numbers are added together. Their total is 1.

One of the numbers is 0.008.

What is the other number?





13. Four cards with fractions on them are shown below:

Marks



Using all of the cards at least once, make two different expressions. You will need to use some cards twice.

















<



<



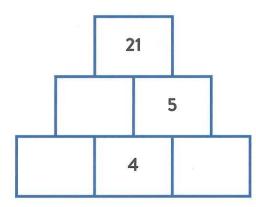
12

14. A number pyramid is shown below.

The number in each box is the **product** of the two numbers below it.

Complete the number pyramid.



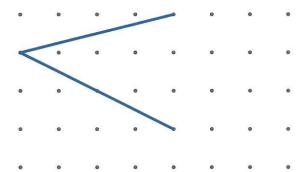


15. Two sides of a quadrilateral have been drawn below.

Marks

Complete the quadrilateral so that it contains three acute angles.





16. Susan thinks of a number. She subtracts 3 and then doubles the result. She then adds 2. The final result is 6.5.

What was the original number that Susan thought about?

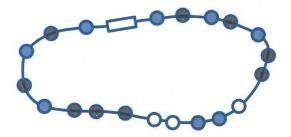
Show your working.





17. A string of 20 round beads is shown below:

Marks



What percentage of the beads are blue?



%



18. Circle all the amounts of money that can be made with exactly three coins.



60p

63р 64р 65р

72p

73p



19. Two whole numbers are each between 40 and 60.

The product of the two numbers is 2,378.

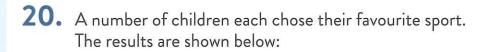
What are the two numbers?



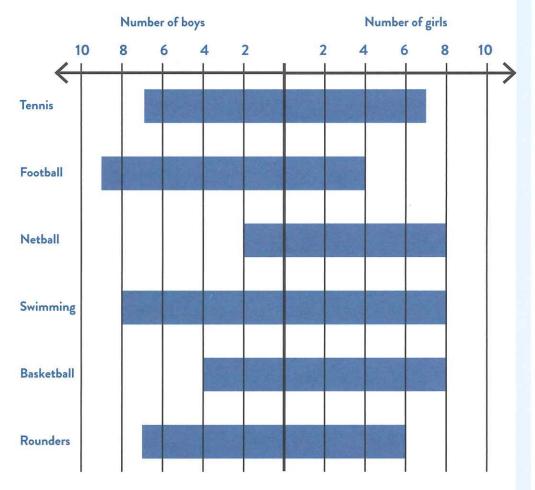


and





Marks



Which sport was chosen by the most children?



/1

How many more boys than girls chose football?



boys

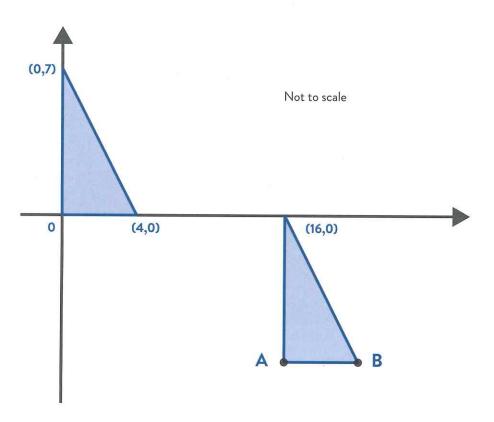
/1

Which sports were liked by more girls than boys?



21. Two identical triangles are shown on coordinate axes below:

Marks



Write the coordinates of points A and B.



A =

(,

)

/1

B =

(

)

END OF TEST