

11 Plus

Maths - Test Paper 1

On the Education Quizzes website there are 70 quizzes to help you prepare for the **11-Plus Maths** exam paper

This paper contains 33 questions.

The total marks for this paper is 59.

Time Allowed: 1 hour



Instructions

- Use **black** ink or ball-point pen.
- Answer **all** questions.
- Answer the questions in the spaces provided.
- **Calculators must not be used.**

Information

- The total mark for this paper is 59.
- The marks for each question are shown in the right hand column with each question.
- Some questions have a method box like the one below.
- Show your working out in the space around the 'Answer' box..

[illegible]

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- If you cannot do a question, go to the next one and come back to it later.
- Check your answers if you have time at the end.
- If you finish early, go back and check your work.



Find the difference between 9.45 and 4.89

Answer

[illegible]

Calculate 43×170

Answer

6

What is the result of 13 multiplied by 5.08?

What is the result of 13 multiplied by 5.08?

Answer

114

Calculate $240 \div 15$

8

Divide 18 by 0.2

Answer

☐ **1 Mark**

Divide 18 by 0.2

[illegible]
$$42 + 937 = 9?9$$

Insert answers in red box and show method where required.

10

$$0.69 + 2.75 = 3.34$$

Answer

1 Mark

11

$$975 - 147 = 838$$

Answer

1 Mark

12

$$? - 9 = -5$$

Answer

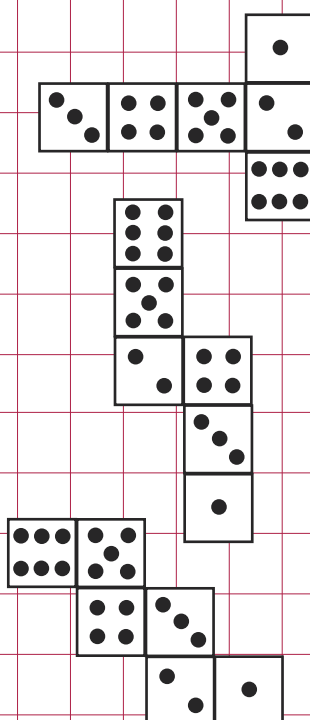
1 Mark





16

This question includes diagrams showing the net of three different unfolded dice. In each part of the question, based on the net illustrated, indicate how many dots would appear on the face opposite the 2 .



Answer

1 Mark

Answer

1 Mark

Answer

1 Mark

17

In each of the following calculations there is an error, which can be corrected by changing one digit to the number 6. In each case identify that digit.

A. $88 - 59 = 19$

Answer

1 Mark

B. $47 + 32 + 60 = 143$

Answer

1 Mark

C. $435 + (9 \times 27) = 878$

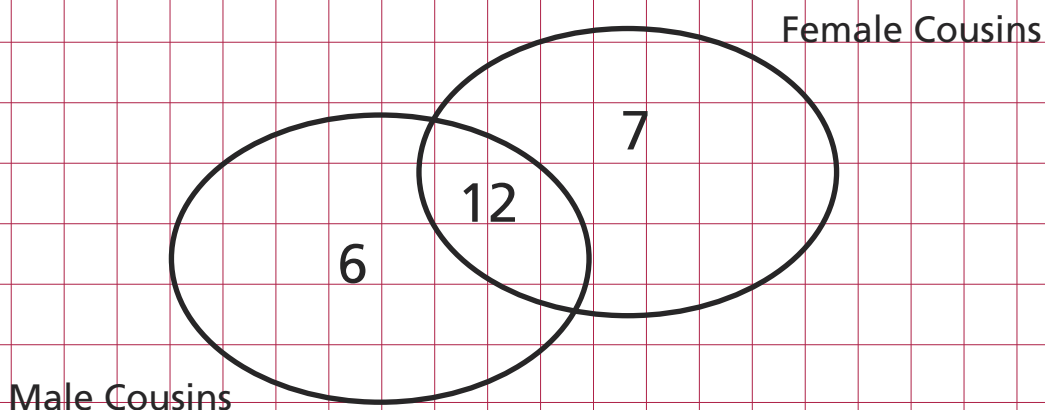
Answer

1 Mark



18

A class of 30 children were asked how many cousins they had. The results are in this Venn diagram.



A. How many pupils had only female cousins?

Answer

1 Mark

B. How many pupils had a cousin?

Answer

1 Mark

C. How many had no cousins?

Answer

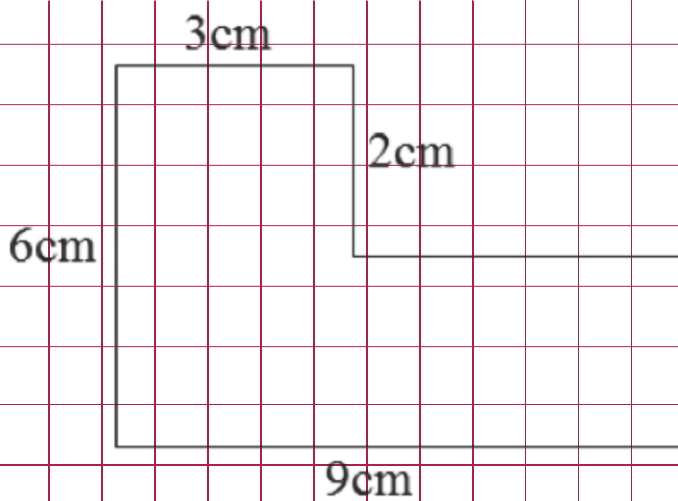
1 Mark

D. Mark the people who had no cousins on the diagram

1 Mark

19

This is a drawing of Holly's bedroom, which needs new carpet.



A. What is the total area of carpet needed?

Answer

1 Mark

B. How many carpet tiles, measuring $0.5\text{cm} \times 0.5\text{cm}$, would Holly need to cover the floor?

Answer

1 Mark



20

In this question, letters of the alphabet are assigned a number values: A = 1, B = 2, C = 3 D = 4 ...

The sum total of a word is created by adding the value of the numbers.

For example, the word 'HAT' = $8 + 1 + 19 = 28$

A. What is the sum total of the word 'BANK'?

Answer

1 Mark

B. List the following words in order of their sum total, starting with the lowest.

BEEF

Answer

1 Mark

CHEESE

Answer

1 Mark

HAM

Answer

1 Mark

TUNA

Answer

1 Mark

C. Which single letter has the same value as the result of dividing the sum total of 'JAM' by the sum total of 'CAB'?

Answer

1 Mark

JAM ÷ CAB =

Answer

1 Mark



21

Refer to the following school canteen price list for this question.

Potato salad 75p

Roll 95p

Banana 50p

Apple pie £1.25

Stew and dumplings £2.30

Mrs Smart wants to buy her class of 35 a packed lunch - each with a roll, potato salad and a banana. How much will she have to pay in total?

Answer

1 Mark

22

How many grams are there in 4.5kg?

Answer

1 Mark



24

Gary is completing a table of values for the formula $3(n+2)$

He has completed the first row of the table.

n	$3(n+2)$
5	21
17	
	90

1 Mark

25

The grid below is a magic square. Every row, column and diagonal must add to 3.9.

What value replaces the ?

1.2	0.7	
	1.3	?

1 Mark

26

This question concerns the number sequence that is formed starting at 4 then adding 6 each time
4, 10, 16, 22, 28...

A. What is the 7th term in the sequence?

Answer

1 Mark

B. What is the 18th term in the sequence?

Answer

1 Mark

C. What is the 100th term in the sequence?

Answer

1 Mark



27

This question involves 5 number cards

5 6 7 8 9

A. Use all 5 number cards: $\underline{\quad} \underline{\quad} \underline{\quad} - \underline{\quad} \underline{\quad} = 794$

1 Mark

B. Use only 3 number cards: $\underline{\quad} \times \underline{\quad} + \underline{\quad} = 38$

1 Mark

28

Which prime number less than 20 has a digit total of 8?

Answer

1 Mark



30

Which three prime numbers multiply together to make 286?

Answer

1 Mark

31

Four girls play in a football match. The number of goals they score are 24, 15, 6 and 17.

A. What was the average (mean) score?

Answer

1 Mark

B. Another girl, Neve, played with them. The average score is now 16. How many goals did she score?

Answer

1 Mark

32

Four sided shapes are known as quadrilaterals. There are several types of quadrilaterals including: oblong, square, parallelogram, kite, trapezium and rhombus. Decide whether these statements are true for ALL, SOME or NO quadrilaterals.

A. All four angles are obtuse

Answer

1 Mark

B. All quadrilaterals have 4 vertices.

Answer

1 Mark

C. The interior angles total 360 degrees

Answer

1 Mark

D. Two of the lines are perpendicular.

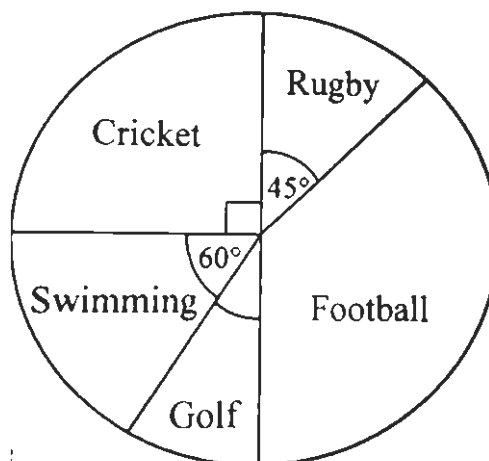
Answer

1 Mark



33

The chart (right) represents data collected in a survey of pupils favourite sports. Football and Rugby were the favourite of half of the children surveyed.



A. Write down the angle of the wedge representing the number of children who said golf was their favourite sport.

Answer

1 Mark

B. Write down the fraction of children who said that rugby was their favourite, in its simplest form.

Answer

1 Mark

C. A total of 240 children were asked to complete the survey. Calculate how many of the children choose football?

Answer

1 Mark

D. The whole school has 1320 pupils. Estimate how many of them you would expect to like swimming best, judging by the information in the pie chart.

Answer

1 Mark



Answers

- 1) 2226(1 mark)
- 2) 24.69(1 mark)
- 3) 1066(1 mark)
- 4) 4.56(1 mark)
- 5) 7310(1 mark)
- 6) 66.04(1 mark)
- 7) 16(1 mark)
- 8) 90(1 mark)
- 9) 7(1 mark)
- 10) 6(1 mark)
- 11) 8(1 mark)
- 12) 4(1 mark)
- 13) 3(1 mark)
- 14) 8(1 mark)
- 15a) 5 children(1 mark)
- 15b) 7 children(1 mark)
- 15c) 66 books(1 mark)
- 16a) 4(1 mark)
- 16b) 6(1 mark)
- 16c) 5(1 mark)
- 17a) 5(1 mark)
- 17b) 2(1 mark)
- 17c) 4(1 mark)
- 18a) 7(1 mark)
- 18b) 25(1 mark)
- 18c) 5(1 mark)
- 18d)(1 mark)

- 19a) 42 metres squared.....(1 mark)
- 19b) 168(1 mark)
- 20a) 28(1 mark)
- 20b) BEEF, HAM, CHEESE, TUNA ...(1 mark)
- 20c) D (4).....(1 mark)
- 21) £77(1 mark)
- 22) 4500g(1 mark)
- 23) 223cm.....(1 mark)
- 24) 57, 28(1 mark)
- 25) 0.5(1 mark)
- 26a) 40(1 mark)
- 26b) 106(1 mark)
- 26c) 598(1 mark)
- 27a) 869 - 75(1 mark)
- 27b) 5 x 6 + 8(1 mark)
- 28) 17(1 mark)
- 29) 1, 25, 49(1 mark)
- 30) 2 x 11 x 13(1 mark)
- 31a) 15.5(1 mark)
- 31b) 18(1 mark)
- 32a) No.....(1 mark)
- 32b) All(1 mark)
- 32c) All(1 mark)
- 32d) Some.....(1 mark)
- 33a) 30 degrees(1 mark)
- 33b) 45/360, 1/8(1 mark)
- 33c) 90(1 mark)
- 33d) 220(1 mark)

