Colfe's School

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11+ Examination

Mathematics Sample Paper



Instructions

- In this exam you should attempt all questions
- Read each question carefully before answering it.
- Remember to show your method for each question.
- The number of marks for each question is given in brackets.
- You have 1 hour to complete this paper.
- Calculators are not allowed.
- Good luck!



1) Add together 95, 82 and 547.

2) Work out 3801 – 122

3) Multiply 59 by 7

4) Divide 5616 by 8

(2)

.....(2)



7) Find 15% of 240

8) Work out 3.45+11.01+2.3

.....(3)

Turn over for more questions.



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(3)

9) The diagram shows a field viewed from above. All dimensions are given in metrophysical of the second sec



A mouse walks all the way around the edge of this field. How far does the mouse walk in metres?

.....m

10) Write down the next two numbers in each sequence

a) 7, 9, 11, 13, _____, ____

b) 105, 96, 87, 78, _____, ____

(2)

(3)







- a) How many year 7s have chips as their favourite food?
- b) What fraction of year 7s have chocolate as their favourite food?

c) Estimate the number of year 7s who have pizza as their favourite food.

(3)

......



Turn over for lots more maths!



- 13) Write each list of numbers in order from smallest to largest
 - a) 0.77, 0.7, 7.7, 7.07
 - b) 5, -8, -16, 9, 8
- 14) Billy went shopping and bought 3 computer games that cost £25.50 each and 2 doughnuts that cost £1.30 each. How much change did Billy get from £100?

£.....

(4)

(2)

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.....

15) Alison, Bhavini and Catherine share a bag of sweets. Alison gets 5 more sweets than Bhavini and Catherine gets twice as many sweets as Alison. Catherine gets 22 sweets. How many sweets are there in the bag?

(3)





- a) Plot the points (4,1), (4,5), (-1, 1) and (-1, 5) and join them up to make a rectangle.
- b) What is the area of the rectangle?

.....cm²

- c) Reflect the rectangle in the *x* axis and draw the result on the coordinate grid.
- 17) Look at the sequence below. Some of the numbers are missing.
 - a) Fill in the numbers so that they fit the pattern. Describe the pattern in words.

2, ____, ____, 16, 32, 64

Description:

(2)

6

(4)

Keep going! Turn over for more questions.



Find the size of angle k.

(3) Work out the missing values

11% of 3600 =

...... % of 52 = 13

15 % of = 60

(4)



20) The cost in pounds, C, of going to the cinema can be worked out using the form

C = 8a + 3k

StudentBounty.com In this formula *a* stands for the number of adults and *k* stands for the number of children.

a) What is the cost if three adults and one child go to the cinema?

b) The total cost for the Bryant family is £25. How many adults and how many children are in the family?

.....

.....adults

.....children

......

21) Work out the value of

- a) $9 + 7 \times 8 3$
- b) $(11 + 13) \times -20$
- c) 2×13^2
- d) −13 − 27

(4)

(5)





b) A rectangle has perimeter 32cm. The rectangle is three times as long as it is wide. What is the area of the rectangle?

.....cm²

(3)



24) The floor or a room is 3 metres wide and 4 metres long. I am going to tile the with tiles that are 25 centimetres wide and 50 centimetres long. How many tiles a I need to buy?

.....

(3)

END OF EXAM

