## 11 Plus

## Maths - Test Paper 3

On the Education Quizzes website, you will find $70 \times 11$-Plus Maths Quizzes to help you prepare for the mathematics section of the 11-Plus

This paper contains 32 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..



## 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.


## $1 \quad$ Calculate $842+1376$

$2 \quad$ Add 23.14 and 8.04

3 Calculate 2656-873

## $4 \quad$ Find the difference between 7.22 and 2.97


$8 \quad$ Divide 18 by 0.3

Answer
$9 \quad 57+762=8 ? 9$


$$
10 \quad 0.46+2 . ? 5=3.41
$$

$\square$
$118 ? 6-278=578$

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

$1325 \times 1 ? 2=3300$
$14 \quad 1.8 \div 2=0 . ?$


15 Some children made a graph to show how many pets they had.


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 3.


17 What is $12 / 50$ as a decimal?

18 Write $1 / 8$ as a percentage.

A) A train leaves London at 21.15 and reaches Aberdeen at 05.00 the next morning. What is the train journey time?

B) A jet leaves London at 21.15 and takes 11 hours and 35 minutes to fly to Hong Kong. Hong Kong is 7 hours ahead of London. Work out the local time in Hong Kong when the flight lands using the 24 hour clock.


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. $97-52=41$
B. $51+39+80=175$
C. $253+(8 \times 23)=447$

Fill in the missing numbers from these sequences:


By how much is four and a half greater than three and seven eighths? Write your answer as a fraction.


Michael has four rectangular tiles which she arranges as shown below, leaving a square hole in the middle of the tiles.


The hole in the middle has an area of 400 cm squared.
A. Calculate the width of one of the tiles.

The area of the four tiles combined is 12 times as large as the area of the hole in the middle.
B. Calculate the length of one of the tiles.
C. Work out the perimeter of one of the tiles.


In each of the grids below, the numbers in the four squares around the middle square must be added together to give the number in the centre.
For example, $2+5+4+3=14$.
Complete the three grids below with the correct number into each of the relevant squares.


Carole has 30 loose socks of assorted colours in her drawer. A third of them are white, and of the non whites remaining, two fifths are blue. The rest are all red.
A. Work out how many blue socks she finds.
B. Write down how many pairs of red socks she could make.


21 is the sum of three different prime numbers
$21=5+13+3$
Show which numbers between 9 and 19 inclusive can be written as the sum of 3 different prime numbers, writing your answer in the space at the bottom. If it is not possible, cross it out.


27 Toby thinks of a number. 20\% of his number is 64 . What is $75 \%$ of his number?

The yearly charge, C in pence, for water can be found by using the formula $\mathrm{C}=150 \mathrm{u}+650$, where $u$ is the number of units of water used during the year.
Find the yearly charge in pounds if 95 units of water are used.


29


## 30 I am half as old as my sister. In six years time she will be 22. How old am I?

## Steaks cost $£ 4.99$ each. A chef buys 125 for his restaurant. What is the total cost?

Solve the following equations:


## Answers

| 1) | 2218 .............................. (1 mark) |
| :---: | :---: |
| 2) | 31.18 ..............................(1 mark) |
| 3) | 1783 ...............................(1 mark) |
| 4) | 4.25 ................................ (1 mark) |
| 5) | 6720 ...............................(1 mark) |
| 6) | 68.68 .............................. ${ }^{\text {(1 mark) }}$ |
| 7) |  |
| 8) | 60 .................................. (1 mark) |
| 9) | ...(1 mark) |
| 10) |  |
| 11) | 5................................... (1 mark) |
| 12) | 8 .................................... (1 mark) |
| 13) |  |
| 14) |  |
| 15a) |  |
| 15b) | 2 ................................... (1 mark) |
| 15c) |  |
| 16a) |  |
| 16b) |  |
| 16c) |  |
| 17) | 0.24 ............................... 1 mark) |
| 18) | 12.5\% ............................(1 mark) |
| 19a) | 7 hours 45 mins ................ (1 mark) |
| 19b) | 15.50 ..............................(1 mark) |
| 20a) | 2 ................................... 1 mark) |
| 20b) | (1 mark) |
| 20c) | 5.................................. (1 mark) |
| 21a) | 39,53 ............................. 1 ( mark) |
| 21b) | 18.5, 23 ........................... 1 mark) |
| 22) | 5/8..................................(1 mark) |
| 23a) |  |
| 23b) |  |
| 23c) |  |


| 24a) | 24 ...................................(1 mark) |
| :---: | :---: |
| 24b) | 10 .................................(1 mark) |
| 24c) | 3 ....................................(1 mark) |
| 25a) | 8 ....................................(1 mark) |
| 25b) | 4 pairs ..............................(1 mark) |
| 26) | 9 (can't be done)................(1 mark) |
|  |  |
|  | 11 (can't be done)..............(1 mark) |
|  | $12=2+3+7 \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots . .1$. 1 mark) |
|  | 13 (can't be done)..............(1 mark) |
|  |  |
|  |  |
|  |  |
|  | 17 (can't be done)..............(1 mark) |
|  | $18=2+3+13$ or $2+5+11 \ldots . .(1$ mark $)$ |
|  | $19=3+5+11 \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots . .1$ mark |
| 27) | 240 ................................ (1 mark) |
| 28) | £149.00 ...........................(1 mark) |
| 29a) |  |
| 29b) | 292 ................................(1 mark) |
| 30) |  |
| 31) | £623.75 ...........................(1 mark) |
| 32a) | 14 ...................................(1 mark) |
| 32b) |  |
| 32c) | -12 ..................................(1 mark) |
| 32d) | 500 ................................(1 mark) |

