

11+ MATHEMATICS SAMPLE PAPER

45 minutes

Equipment Required: Pencil and pen

Special Instructions: **All working must be clearly shown** and must be set out in the space provided. Attempt as many questions as you can, in any order.
Calculators may **not** be used.
Marks for each question are shown.

Name:

Result:

Comment:

1. Write the number thirty thousand eight hundred and five in figures.

Answer [1]

2. Write the number 602 174 in words.

Answer
..... [1]

3. Write down all the factors of 24.

Answer [3]

4. Fill in the gaps:

(a) 2.2 km = meters [1]

(b) 575 ml = litres [1]

5. Calculate the answer to

(a) $-8 + +6 = \dots\dots\dots$ [1]

(b) $-7 - -3 = \dots\dots\dots$ [1]

6. Work out each of the following and write your answer in the space provided:

(a) $72 \div 9 + 3 = \dots\dots\dots$ [1]

(b) $25 - 3 \times 7 = \dots\dots\dots$ [1]

(c) $36 \div (12 - 3) = \dots\dots\dots$ [1]

7. Work out:

(a) $\pounds 8.39 + 63\text{p}$

(b) $\pounds 6.00 - \pounds 2.79$

Answer [2]

Answer [2]

(c) $\pounds 3.24 \times 17$

(d) $\pounds 29.96 \div 7$

Answer [3]

Answer [3]

8. Nicole downloaded 6 MP3 albums. Each album cost £8.98 and contained 13 tracks.

(a) How many tracks did she buy?

Answer [1]

(b) How much did she pay in total?

Answer [1]

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9. 37 girls are going to a Netball Tournament with 6 adults. Each mini bus holds 17 people. How many minibuses are needed?

Answer [3]

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10. Alice's train leaves at 16:05. She must allow 1 hour and 12 minutes to get to the station. When is the latest she can leave home and still catch the train?

Answer [2]

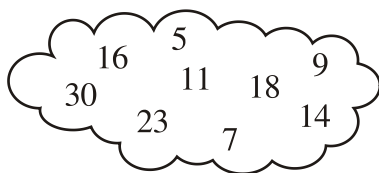
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11. (a) Write down the next two terms in this

5, 12, 19, 26,,, [2]

(b) Fill in the missing numbers in this sequence

5,, 21, 29,45, 53 [2]

12. Look at the numbers in the cloud:



Write down **all** the numbers in the cloud that are:

(a) multiples of 3 [1]

(b) prime numbers [1]

(c) factors of 45 [1]

13. There are 18 chocolates in a box. $\frac{2}{3}$ are milk chocolate, the rest are plain. How many chocolates are plain?

Answer [2]

14. 9 girls were asked how many pets they had. These are their results.

7, 5, 1, 5, 4, 3, 5, 7, 8

Find the mode, median, mean and range.

The mode is [1]

The median is [2]

The mean is [2]

The range is [1]

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15. Work out the following:

(a) 40% of £200

Answer [2]

(b) 35% of 500g

Answer [2]

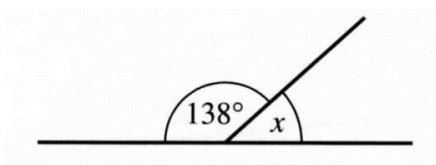
16. Harriet thought of a number. She added 4 and then multiplied by 3. She added 6 to her answer and then divided by 4 to get 9. What number did Harriet first think of?

Answer [3]

17. Jess went out hunting for ladybirds. She collected some with 7 spots and some with 10 spots. If she collected 9 ladybirds with a total of 72 spots between them, how many had 7 spots and how many had 10 spots?

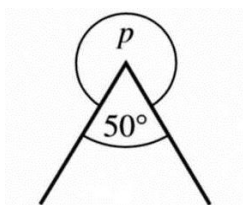
Answer 7 spots: 10 spots: [3]

18. (a) Work out the angle marked x .



$x = \dots\dots\dots^\circ$ [1]

- (b) Work out the angle marked p .



$P = \dots\dots\dots^\circ$ [1]

19 Solve these equations:

(a) $x + 4 = 7$

$x = \dots\dots\dots[1]$

(b) $3y = 15$

$y = \dots\dots\dots[1]$

(c) $\frac{p}{4} = 5$

$p = \dots\dots\dots[1]$

(d) $7 - n = 9$

$n = \dots\dots\dots[1]$

END OF EXAMINATION

Total