

11+ MATHEMATICS SAMPLE PAPER

60 minutes

| Equipment | Required: | Penci | l 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.

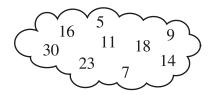
| Name: | | |
|----------|--|--|
| Result: | | |
| Comment: | | |

| 1. | Write the number thirty thousand eight hundred and five in figures. | | | | |
|----|---|-------------|-----|--|--|
| | | Answer | [1] | | |
| 2. | Write the number 602 17 | 4 in words. | | | |
| | Answer | | | | |
| | | | [1] | | |
| 3. | Write down all the factors | s 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 = | | [1] | | |
| | (b) ⁻ 7 - ⁻ 3 = | | [1] | | |
| | | | | | |

| 6. | Work out each of the following and write your answer in the space provided: | | | | | |
|----|---|-----------------|-----|-------|---------------|-----|
| | (a) | 72 ÷ 9 + 3= | | | | [1] |
| | (b) | 25 – 3 x 7 = | | | | [1] |
| | (c) | 36 ÷ (12 - 3) = | | | | [1] |
| 7. | Work o | out: | | | | |
| | (a) | £8.39 + 63p | | (b) | £6.00 - £2.79 | |
| | Answe | r | [2] | Answe | r | [2] |
| | (c) | £3.24 x 17 | | (d) | £29.96 ÷ 7 | |
| | Answe | r | [3] | Answe | r | [3] |

| 8. | Nicole downloaded 6 MP3 albums. | Each album cost £8.98 and contained 13 tra | cks. |
|-----|--|---|------|
| | (a) How many tracks did she buy? | | |
| | (b) How much did she pay in total? | Answer | [1] |
| | | Answer | [1] |
| 9. | 37 girls are going to a Netball Tourn people. How many minibuses are n | ament with 6 adults. Each mini bus holds 17 eeded? | 7 |
| | | | |
| | | Answer | [3] |
| 10. | | ust allow 1 hour and 12 minutes to get to the leave home and still catch the train? | 9 |
| | | Answer | [2] |
| 11. | (a) Write down the next two terms | in this | |
| | 5, 12, 19, 26,,, | | [2] |
| | (b) Fill in the missing numbers in this | s 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:

- (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?

14. Simplify the following expressions:

(a)
$$3x - 2y + x + 6y$$

(b)
$$4g + 5 - g -$$

Answer [2]

| (a) $2 + 3 \times 4 + 1$ | | × 4 + 1 | Answer[| 1] | | |
|--------------------------|-------------------------|-----------------|---|-----|--|--|
| (b) | 4 × 1 | $1 - 28 \div 7$ | Answer[| 2] | | |
| (c) 48 | ÷ (14 | -2) | Answer | 2] | | |
| 16. | 9 girls | were asked ho | ow many pets they had. These are their results. | | | |
| | Find t | he mode, medi | 7, 5, 1, 5, 4, 3, 5, 7, 8 ian, mean and range. | | | |
| | | | | | | |
| | | | | | | |
| | | | The condets | [aː | | |
| | | | The mode is | [1] | | |
| | | | The median is | [2] | | |
| | | | The mean is | [2] | | |
| | | | The range is | [1] | | |
| 17. | Work out the following: | | | | | |
| | (a) | 40% of £200 | | | | |
| | | | | | | |
| | | | Answer | [2] | | |
| | (b) | 35% of 500g | | | | |
| | | | Answer | [2 | | |

15. Calculate:

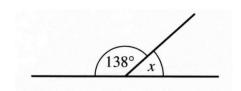
18. Harriet thought of a number. She added 4 and then multiplied by 3. She added 6 to her answer and then divided by 4 to get 9. What number did Harriet first think of?

| Answer | | [3 |
|--------|--|----|
|--------|--|----|

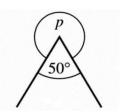
19. Jess went out hunting for ladybirds. She collected some with 7 spots and some with 10 spots. If she collected 9 ladybirds with a total of 72 spots between them, how many had 7 spots and how many had 10 spots?

Answer 7 spots: 10 spots: [3]

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



(b) Work out the angle marked p.



21. Solve these equations:

(a)
$$x + 4 = 7$$

$$x =[1]$$

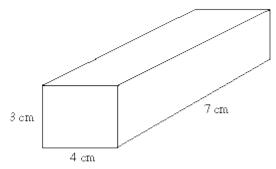
(b)
$$3y = 15$$

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

$$p$$
=.....[1]

(d)
$$7 - n = 9$$

22. Find the volume of



Answer[2]