

Edexcel GCSE Mathematics Non-Calculator 2024 Higher Paper 1 Revision Worksheet

Answer all questions. Show all your working clearly. Calculators are NOT allowed.

Problem Solving and Exercises

1. Solve for x : $3(x - 2) = 2x + 7$
2. Expand and simplify $(2x - 3)(x + 5)$
- 3.
3. A rectangle has a length of $3x + 2$ cm and a width of $x - 4$ cm. Express the area of the rectangle as a simplified expression in terms of x .
4. Simplify: $\frac{4x^2 - 9}{2x + 3}$
5. Calculate the value of k if $2k + 5 = 3k - 8$.
6. The n th term of a sequence is $4n - 7$. Find the 10th term.
7. Factorise completely: $x^2 - 9x$
8. Solve the inequality: $5 - 2x > 1$
9. The mean of five numbers is 12. Four of the numbers are 8, 11, 13, and 17. Find the fifth number.
10. Work out $7^2 - 4^3$.
11. The probability of winning a game is 0.35. What is the probability of not winning?
12. A triangle has sides of length 5 cm, 12 cm, and 13 cm. Is this triangle right-angled? Show your working.
13. Write 0.0045 in standard form.
14. Solve: $\frac{2}{x} = 8$
15. The ratio of boys to girls in a class is 5:7. If there are 24 girls, how many boys are there?