

Year 11 Finals 2025

Y11/1. Solve $|1 - 2x| - 5 = 8$

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Y11/2. Convert 15m/s to km/h

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Y11/3 If a radio is sold at a profit of 30%, what is the ratio of profit to selling price? Give your answer in the simplest form.

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Y11/4 A tree measures 1.2 m when first planted. After planting it grows 900mm in the first year and from then on each year's increase in height is $\frac{2}{3}$ of the previous year's increase. Calculate the maximum height in metres that the tree can reach.

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Y11/5. The mean of a set of integers is 2. The sum of the integers is 10. If four of the integers are $-2, -9, 10$ and 6 , what is the median of the set?

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Y11/6. Solve $\frac{x+1}{2} - \frac{3x+2}{7} = 1$

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Y11/7. Convert 0.005 m^3 into cm^3

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Y11/8 Evaluate $\sum_{n=1}^4 (n + 2)$

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Y11/9 By placing 9 at the right hand end of a three digit number, its value is increased by 5661. What is the original number?

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Y11/10. How long, in seconds, will a 273m long train take to cross a 177m long bridge if the speed of the train is 60 km/h?

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Y11/11 Simplify $(x + 1)(x + 2)(x - 3) + 6$

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Y11/12 A geometric sequence has a 3rd term of 36 and a 5th term of 324. Calculate the common ratio?

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Y11/13 Simplify $\frac{x^2}{x^2 - 4} - \frac{x}{x-2}$

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Y11/14 Adding 3 years to the age of a boy would make him one quarter of his father's age.
Two years ago, his father was three years more than six times his son's age. How old
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Y11/15 The sum of three consecutive even integers is 62 more than the first integer. What is the value of the largest integer?

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Y11/16. Solve $\frac{3x^2 + 20}{x} = 17$

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Y11/17. The diameter of a truck's wheel is $\frac{25}{6\pi}$ metres. The truck is travelling at 40 km/h. How many revolutions does the wheel make in 1 minute?

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Y11/18. A man makes a trip by a car at an average speed of 20 km/h. He returns over the same route at an average speed of 30 km/h. Find his average speed for the entire trip in km/h

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Y11/19. Find the sum of the multiples of 7 between 63 and 511.

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Y11/20. In how many ways can six people sit around a table if two particular people must be seated next to each other?

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