

Year 10 Finals 2025

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Y10/2. Find the equation of the inverse of $y = \frac{1}{4}x - 5$

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Y10/3. Factorise: $x^2 - x - 20$

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Y10/4 What is the domain of the function $= \sqrt{x}$?

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Y10/5 Change 72 km/h to m/s.

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Y10/6. Find the equation of the line in the form $y = mx + c$ which cuts the x -axis at $-\frac{1}{2}$ and y -axis at -6 .

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Y10/7. If A is 20% of B then $2A$ is what percent of $5B$?

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Y10/8. Solve $\frac{x}{2} \div \frac{2}{x} = 9$

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Y10/9. At what rate of simple interest a sum of money will double in 5 years.

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Y10/10. 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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Y10/11. Solve $\frac{x-2}{3} - \frac{x-1}{2} = 4 + \frac{x}{2}$

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Y10/12. The points $(0, -4)$, $(2, -8)$ and $(p, 6)$ lie on the same straight line.

Find the value of p .

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Y10/13. At a cafe, one sandwich, three cups of coffee and three doughnuts costs \$14.50

Two sandwiches, four cups of coffee and five doughnuts costs \$23

How much does it cost to buy 8 sandwiches, 14 cups of coffee and 19 doughnuts?

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Y10/14. The mean of a set of integers is 6. The sum of the integers is 18. If two of the integers are -4 and 12 , what is the median of the set?

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Y10/15. Adding 2 years to the age of a boy would make him one quarter of his father's age. Four years ago, his father was one year less than ten times his son's age. How old is the boy?

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Y10/16. The diameter of a truck's wheel is $\frac{26}{7\pi}$ metres. The truck is travelling at 78 km/h. How many revolutions does the wheel make in 1 minute?

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Y10/17. If $10^{2y} = 25$, find the value of 10^{2-y}

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Y0/18. 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.

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Y10/19. Pita invested \$6,000 in two types of bonds. The interest rate of one of the investments was 3% and on the other 7%. If the total annual income from both investments was \$320, how much was invested in the account with the lower interest rate?

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Y10/20. If each edge of a cube is increased by 200%, what is the percentage increase in the surface area?

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