

Kangaroo Math Contest Past Papers

Q21 5 friends talk about their collected astro-pins planets: , moons: or stars: . Xenia says: \"I have an even number of pins\", ... 0b7ebf339f Q15 Approach 1 3 rectangles of the same height are positioned as shown. The numbers within the ... 0b7ebf339f Q1-5 Karin places tables of size 2×1 according to ... 0b7ebf339f Q1-7 Otto attaches the number plate to his car the wrong way ... 0b7ebf339f Q14. Maria has exactly 9 white cubes, 9 light gray cubes and 9 dark gray cubes, ... 0b7ebf339f Q2-10 The diagram shows a square $\square\square\square\square$ with side length 1. ... 0b7ebf339f Q1-6 I am smaller than my half and bigger than my double. 0b7ebf339f Q1-10 Gerhard writes down the sum of the squares of two numbers. ... 0b7ebf339f Q18 (Approach 1) A rectangular strip of paper of dimensions $4\text{cm} \times 13\text{cm}$ is folded as shown in the diagram. 2 rectangles are formed ... 0b7ebf339f More videos 0b7ebf339f Q28 A large cube has side-length 7cm. On each of its 6 faces, the two diagonals are drawn in red. ... 0b7ebf339f 2024 Kangaroo Math Competition - Grade 11 \u0026 12 (Full Solutions) - 2024 Kangaroo Math Competition - Grade 11 \u0026 12 (Full Solutions) 1 hour, 25 minutes - kangroomath #mathkangaroo #mathcompetition. 0b7ebf339f Q26. (Demo) 0b7ebf339f Intro 0b7ebf339f Q2-2 There are 5 trees and 3 paths in a park as shown on the map. ... 0b7ebf339f Q3-6 (Approach 2) 0b7ebf339f Q2-10 Two identical bricks can be placed side by side in ... 0b7ebf339f Math Kangaroo 5-6, 2021 - Math Kangaroo 5-6, 2021 1 hour, 49 minutes - Math Kangaroo, Practice: <https://boo9.com/practice> **Past papers**, \u0026 solutions: <https://boo9.com/resources/math-kangaroo>, ... 0b7ebf339f Q15 Five identical right-angled triangles can be arranged so that their larger acute angles touch to form the star shown in the diagram.... 0b7ebf339f Q3-10 In total there are 2022 kangaroos and some koalas ... 0b7ebf339f Q1-9 The black-white caterpillar shown, rolls up to go to sleep. ... 0b7ebf339f Q17 Approach 2 0b7ebf339f Q3-2 A shape is made up of a triangle and a circle that partially overlap. 0b7ebf339f Q5. Turning a card around on the top side, we see the photo of the kangaroo. ... 0b7ebf339f Q3-9 Eight teams take part in a football tournament where ... 0b7ebf339f Q1-4 Various symbols are drawn on a piece of paper (see picture). ... 0b7ebf339f Q4 How many four-digit numbers have the property that their digits, from left to right, are consecutive and in ascending order? 0b7ebf339f Q29 In a tournament each of the 6 teams plays one match against every other team. In each round of matches, 3 take place ... 0b7ebf339f Math Kangaroo 5-6, 2020 - Math Kangaroo 5-6, 2020 1 hour, 14 minutes - Math Kangaroo, Practice: <https://boo9.com/practice> **Past papers**, \u0026 solutions: <https://boo9.com/resources/math-kangaroo>, ... 0b7ebf339f Q17 (Approach 1 - Algebra) There are 20 questions in a quiz. Each correct answer scores 7 points, each wrong answer scores -4 points, ... 0b7ebf339f Math Kangaroo 7-8, 2021 - Math Kangaroo 7-8, 2021 2 hours, 30 minutes - Math Kangaroo, Practice: <https://boo9.com/practice> **Past papers**, \u0026 solutions: <https://boo9.com/resources/math-kangaroo>, ... 0b7ebf339f Spherical Videos 0b7ebf339f Q23. A panel is composed of 4 circles. When Lucy touches a circle, this circle and ... 0b7ebf339f Q3-10 A hemispheric hole is carved into each face of a ... 0b7ebf339f Q3-6 The diagonals of the squares ... 0b7ebf339f Q1-4 The numbers 3, 4, 5, 6, 7 are written inside the five circles of the shape. ... 0b7ebf339f Q2-7 A rabbit and a hedgehog enter a race against each other. ... 0b7ebf339f Q24 An apple and an orange weigh as much as a pear and a peach. An apple and a pear weigh ... 0b7ebf339f Q2-4 A bee called Maja wants to hike from ... 0b7ebf339f Q29 In a group of 10 elves and trolls, each were given a token with a different number from 1 to 10 ... 0b7ebf339f Q2-3 The diagram shows three big circles of ... 0b7ebf339f Q5 When the 5 pieces are fitted together correctly, the result is a rectangle with a calculation written on it. What is the answer to this calculation? 0b7ebf339f Q18 Three pirates were asked how many coins and how many diamonds their friend Graybeard ... 0b7ebf339f Q3-3 The numbers 1 to 8 are written into the circles shown ... 0b7ebf339f Q8 A cube $3 \times 3 \times 3$ is made from $1 \times 1 \times 1$ white, grey and black cubes, as shown in the first diagram. The other two diagrams ... 0b7ebf339f Q21 Ann, Bob, Carina, Dan and Ed are sitting at a round table. Ann is not next to Bob, Dan ... 0b7ebf339f Q3-8 Consider the five circles with midpoints ... 0b7ebf339f Q16 Approach 1 A triangular pyramid is built with 10 identical balls, like this xxx. Each ball has one of the ... 0b7ebf339f Q27 (Approach 1) A $3 \times 4 \times 5$ cuboid consists of 60 identical small cubes. A termite eats its way along the diagonal from P to Q. This diagonal ... 0b7ebf339f Q6. Bia has five coins as shown beside. She went to the grocery store to buy ... 0b7ebf339f Q10. Two little mice, one white and one dark, leave, at the same time, towards the ... 0b7ebf339f Q2-5 The sum of two positive integers is three ... 0b7ebf339f Q14 The diagram shows 3 hexagons with numbers at their vertices, but some numbers are ... 0b7ebf339f Q27 (Approach 2 - Theoretical / Abstract) 0b7ebf339f Q19. Beatriz has five sisters with ages of 2, 3, 5, 8, 10 and 17. Beatriz ... 0b7ebf339f Q25 Approach 1: What is the smallest number of shaded squares that can be added to the diagram to ... 0b7ebf339f Q23 (Approach 1) A triangular pyramid is built with 20 cannon balls, as shown. 0b7ebf339f Q10 Byron is 5cm taller than Aaron, but 10cm shorter than Caron. Darren is 10cm taller than Caron, but 5cm shorter than Erin. Which ... 0b7ebf339f Q12 Approach 2 (Algebra) 0b7ebf339f Q10 Approach 1: There is a square with line segments drawn inside it. The line segments are drawn either from 0b7ebf339f Q3. The board beside is formed by little white and dark squares. After a ninety-degree turn, ... 0b7ebf339f Q27. (Approach 1: No algebra) Janaina bought three toys, spending all her money. For the first one she paid half ... 0b7ebf339f Q2 In how many places in the picture are two children holding each other with their left hands? 0b7ebf339f Q16. Mary numbered the sides of three cards from 1 to 6. Using these cards, she ... 0b7ebf339f Q13 The area of the large square is 16 cm^2 and the area of each small square is 1 cm^2 . What is the total ... 0b7ebf339f Q25. Ten people order an ice cream for each one. They ask for four vanilla ice ... 0b7ebf339f Q17 Approach 1 Ronja had four white tokens and Wanja had four grey tokens. They played a game in ... 0b7ebf339f Q3-2 (Approach 2) 0b7ebf339f Q3-1 (Approach 1) Jenny writes numbers into a 3×3 table so that the sums ... 0b7ebf339f Q3-7 (Another Solution) 0b7ebf339f Q30 There are rectangular cards divided into 4 equal cells with different shapes drawn in ... 0b7ebf339f End 0b7ebf339f Q22. John made a construction with wooden cubes of the same size, with the three views ... 0b7ebf339f Q1-1 What is $(20+22) \div (20-22) = ?$ 0b7ebf339f Q30 The diagram shows a quadrilateral divided into 4 smaller quadrilaterals with a common vertex K. The other labelled ... 0b7ebf339f Q1-5

Anna, Beatrice and Clara altogether are 15 years old. ... 0b7ebf339f Q3-1 (Approach 2) 0b7ebf339f Q19 A box of fruit contains twice as many apples as pears. Christy and Lily divided them up so that Christy had twice as many pieces ... 0b7ebf339f Q7 The 5 figures on the grid can only move in the directions indicated by the black arrows. ... 0b7ebf339f Q25 Approach 2 0b7ebf339f Q14 (Approach 1) Costa is building a new fence in his garden. He uses 25 planks of wood, each of which are 30 cm long. ... 0b7ebf339f Q1-3 Beate arranges the five cards so that the smallest nine-digit ... 0b7ebf339f Q20 In a railway line between the cities X and Y, the trains can meet, traveling in opposite ... 0b7ebf339f Q24 The 6-digit number 2ABCDE is multiplied by 3 and the result is the 6-digit number ABCDE2. What is the sum ... 0b7ebf339f Q17. Which of the following indeformable pieces of wire, when duplicated, allows to make a closed ... 0b7ebf339f Intro 0b7ebf339f Q3 In the square you can see the digits from 1 to 9. A number is created by starting at the star, ... 0b7ebf339f Q15. The following figures show five paths, indicated by the thickest lines, between the X and ... 0b7ebf339f Q2-6 Gardener Toni plants tulips xxx and xxx sunflowers in a square flowerbed ... 0b7ebf339f Q1-6 Kengu likes to jump on the number line. 0b7ebf339f Q13. On a distant island, 2020 kangaroos, holding hands, form a large circle. These kangaroos are ... 0b7ebf339f Q22 Maurice asked the canteen chef for the recipe for his pancakes. Maurice has 6 eggs, ... 0b7ebf339f Q30. The figure shows a map with some islands and how they are connected by bridges. ... 0b7ebf339f Q16 Approach 2 0b7ebf339f Q22. (Bonus discussions) 0b7ebf339f Q21. Inside the gray square there are three white squares and the numbers inside them indicate ... 0b7ebf339f Q3-7 What is the minimum number of cells of a 5×5 grid ... 0b7ebf339f Q28. Dirce built the sculpture on the side by gluing cubic boxes of half a meter ... 0b7ebf339f Q12 (Approach 1 - No algebra) A jar one fifth filled with water weighs 560 g. The same jar four fifths filled with water weighs 740 g. ... 0b7ebf339f Q3-6 (Approach 1) A painter wants to mix 2 litres of blue paint with ... 0b7ebf339f Q27. (Approach 2: Starting backward) 0b7ebf339f Q12 Approach 1: The map shows three bus stations at points A, B and C. A tour from station A to the Zoo ... 0b7ebf339f Q4 Sofie wants to write the word KENGU by using letters from the boxes. She can only take ... 0b7ebf339f Q2-6 The rectangle $\square\square\square\square$ is made up of 12 congruent ... 0b7ebf339f Q4. Ana starts lighting a candle every 10 minutes. Each candle lasts 40 minutes. After 55 ... 0b7ebf339f All About Math Kangaroo Exam $\square$ || How to Prepare for Math Kangaroo? $\square$ - All About Math Kangaroo Exam $\square$ || How to Prepare for Math Kangaroo? $\square$ 11 minutes, 46 seconds - Click Here to Enroll in \"**Mathematics**, Olympiad Beginners Program 2025\" <https://physicswallah.onelink.me/ZAZB/okv4zq8a> ... 0b7ebf339f Q23 (Approach 2) 0b7ebf339f Q27 Each shelf holds a total of 64 deciliters of apple juice. The bottles have three different sizes: ... 0b7ebf339f Q26 2021 coloured kangaroos are arranged in a row and are numbered from 1 to 2021. Each kangaroo is coloured ... 0b7ebf339f Q5 When the 5 pieces xxx are fitted together correctly, the result is a rectangle ... 0b7ebf339f Q3-4 In a certain city the inhabitants only communicate by ... 0b7ebf339f Q18 (Approach 2) 0b7ebf339f Q9 A bike lock has four wheels numbered with the digits 0 to 9 in order. Each of the four wheels is rotated by 180° from the ... 0b7ebf339f Q3-9 Some points are marked on a straight line. ... 0b7ebf339f intro 0b7ebf339f Intro 0b7ebf339f Q24. Which set of weights below balances the third scale, in the picture beside? 0b7ebf339f Q11. The circles of the figure should be numbered from 0 to 10, each with a ... 0b7ebf339f Q2-9 The big rectangle ABCD is made up of ... 0b7ebf339f Q2-1 Five squares and two right-angled triangles are ... 0b7ebf339f Q1-9 In the multiplication grid displayed, each white cell should ... 0b7ebf339f Keyboard shortcuts 0b7ebf339f Q1 Which of the following symbols for signs of the Zodiac has an axis of symmetry? 0b7ebf339f Q3-1 Once I met six sisters whose ages were six ... 0b7ebf339f Q16 Five squares are positioned as shown. The small square indicated has area 1. What is the value of h? 0b7ebf339f Q2-9 There are three paths running through our ... 0b7ebf339f End 0b7ebf339f Q22 (Approach 2 - Algebra) 0b7ebf339f Q28 In a town there are 21 knights who always tell the truth and 2000 knaves who always lie. A wizard divided ... 0b7ebf339f Q26. (Approach 1: No algebra) We say that a three-digit number is balanced if the middle digit is the arithmetic ... 0b7ebf339f Math Kangaroo 7-8, 2022 - Math Kangaroo 7-8, 2022 1 hour, 14 minutes - Math Kangaroo, Practice: <https://boo9.com/practice> **Past papers**, \u0026 solutions: <https://boo9.com/resources/math-kangaroo>, ... 0b7ebf339f Q1-2 Karo has a box of matches with 30 matches. ... 0b7ebf339f Q1-7 The midpoints of both longer sides of ... 0b7ebf339f Math Kangaroo 9-10, 2022 - Math Kangaroo 9-10, 2022 1 hour, 23 minutes - Math Kangaroo, Practice: <https://boo9.com/practice> **Past papers**, \u0026 solutions: <https://boo9.com/resources/math-kangaroo>, ... 0b7ebf339f Q3-8 Mowgli asks a bear and a panther which day of the week it is. ... 0b7ebf339f Subtitles and closed captions 0b7ebf339f Q2-7 There are two clocks in my office. ... 0b7ebf339f End 0b7ebf339f Q3-5 Twelve weights have integer masses of ... 0b7ebf339f Q26 Approach 2 (Smart :) 0b7ebf339f Q29. Vania has a sheet of paper divided into nine equal squares. She wants to fold ... 0b7ebf339f Q4 Duplicate (sorry, missed that while editing 0b7ebf339f Q3-5 The four villages A, B, C and D are situated ... 0b7ebf339f end 0b7ebf339f Math Kangaroo 2025 Levels 9-10 Presented by Smriti Chaudhury - Math Kangaroo 2025 Levels 9-10 Presented by Smriti Chaudhury 1 hour, 7 minutes - Hello my name is Smithy Chadri and I'll be showing how to solve the **Math Kangaroo**, 2025 grades 9 to 10 **questions**, let's get ... 0b7ebf339f Q1-3 An equilateral triangle with side length 12 has ... 0b7ebf339f Q23 The picture shows 3 gears with a black gear tooth on each. Which ... 0b7ebf339f Q15 Approach 2 0b7ebf339f Q1-8 Sonja's smartphone displays the diagram on the right. ... 0b7ebf339f Q9. Five boxes contain 2, 3, 4, 7 and 15 balls respectively. Peter wants to distribute ... 0b7ebf339f Q26. (Approach 2: Algebra) 0b7ebf339f Q2-8 The grandchildren ask their grandma how old she is. ... 0b7ebf339f Q11 A rectangular chocolate bar is made of equal squares. Neil breaks off two complete strips of squares and ... 0b7ebf339f [Q1 to Q15] 2025 Kangaroo Math Competition - Grade 11 \u0026 12 (Full Solutions) - [Q1 to Q15] 2025 Kangaroo Math Competition - Grade 11 \u0026 12 (Full Solutions) 36 minutes - mathcompetition #matholympiad #olympiadmathematicscompetition #kangaroomath #mathkangaroo This video presents the full ... 0b7ebf339f Q1-10 There are 5 people to choose from on a ballot paper. ... 0b7ebf339f Q6 A measuring tape is wound around a cylinder. What number should be at the place shown ... 0b7ebf339f General 0b7ebf339f Q27. (Approach 3: Algebra) 0b7ebf339f Q12 (Approach 2 - Algebra) 0b7ebf339f Q1-1 What is ... 0b7ebf339f Q8 Carin is going to paint the walls in her room green. The green paint is too dark, so she ... 0b7ebf339f Q14 (Approach 2) 0b7ebf339f Q2-2 2022 tiles are placed in one long row. ... 0b7ebf339f Playback 0b7ebf339f Q26 Approach 1: My little brother has a 4-digit bike lock with the digits 0 to 9 on each part of the lock as ... 0b7ebf339f Q7 (Approach 1 Easier) A student correctly added the two two-digit numbers on the left of the board and got the answer 137. ... 0b7ebf339f Q25 A box contains only green, red, blue and yellow counters. There is always at least one green counter amongst any ... 0b7ebf339f Q2. Amira is traveling from Atown to Betown and passes by two indicative signs along the ... 0b7ebf339f Q1-2 Meike paddles around five buoys with her boat (see

diagram). ... 0b7ebf339f Q1. Which tile below completes the wall next to it? 0b7ebf339f Q7. In a garden, a bush has branches with seven leaves or branches with four leaves ... 0b7ebf339f Q22 (Approach 1) In a particular fraction the numerator and denominator are both positive. The numerator of this fraction is increased by ... 0b7ebf339f Q1 Which of the following solid shapes can be made with these 6 bricks? 0b7ebf339f Q7 (Approach 2 - Place-Value) 0b7ebf339f Q10 Approach 2 0b7ebf339f Q12. When the bat Elisa left its cave at night, the digital clock showed . When ... 0b7ebf339f Q11 The number 5021972970 is written on a sheet of paper. Julian cuts the sheet twice ... 0b7ebf339f Q6 Each of the five vases shown has the same height and each has a volume of 1 litre. Half a litre of water is poured into each vase.... 0b7ebf339f Q20. Maria puts 4 liters of water in vase I, 3 liters of water in vase ... 0b7ebf339f Q8. Cynthia paints each region of the figure in a single color: red, blue or yellow. ... 0b7ebf339f Q9 Mary had a piece of paper. She folded it exactly in half. Then she folded it exactly in half again. ... 0b7ebf339f Q3-4 By bike it takes Marc 20 minutes to go from home to school and back. 0b7ebf339f Q2-5 How many integers between 100 and 300 have only odd digits? 0b7ebf339f Q20 Three villages are connected by paths as shown. From Downend to Uphill, the detour via Middleton is 1km longer than the ... 0b7ebf339f Q2-1 There are five gaps in the following calculation. ... 0b7ebf339f Q2 The figure shows three concentric circles with four lines passing through their common centre. What ... 0b7ebf339f Q19 There were 20 apples and 20 pears in a box. Carl randomly took 20 pieces of fruit ... 0b7ebf339f Q17 (Approach 2 - No algebra) 0b7ebf339f Q3-7 The product of the digits of a number $\square$ is 20. ... 0b7ebf339f Q3 What is the value of xxx? 0b7ebf339f Q2-3 The distance between two shelves in Monika's kitchen is 36 cm. ... 0b7ebf339f Q13 Rosa wants to start at the arrow, follow the line, and get out at the other arrow. Which ... 0b7ebf339f Q3-2 (Approach 1) Veronika wears five rings as shown. ... 0b7ebf339f Q1-8 Sonja builds the cube shown, out of equally sized bricks. ... 0b7ebf339f Q3-3 One square is drawn inside each of the two ... (** there is an easier solution by @ZEPHYRZHANG-mg8zi in the comment section!) 0b7ebf339f Search filters 0b7ebf339f Q18. Amelia glues these six stickers on the faces of a cube: The figure shows this ... 0b7ebf339f Q2-8 Werner has written some numbers on a piece of paper whose sum is 22. ... 0b7ebf339f Q2-4 On an ordinary die the numbers on opposite sides always add up to 7. ... 0b7ebf339f

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