

Growing Staircase Math Problem Solution



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Growing Staircase Math Problem Solution

Problem of the Month: Growing Staircases The Problems of the Month (POM) are used in a variety of ways to promote problem solving and to foster the first standard of mathematical practice from the Common Core State Standards: "Make sense of problems and persevere in solving them." The

Problem of the Month: Growing Staircases - Inside Mathematics

I need a rule that given y number of blocks you can tell how many steps are in the staircase. It's one of those problems where 2 steps is 3 blocks, 4 steps is 10 blocks, 5 steps is 15 blocks etc. If you could please help out and explain how to find the answer, not necessarily just giving me the answer, than it would be much appreciated.

Growing Staircase Question? | Yahoo Answers

The Staircase Problem -Towers ("Algebraic Strategies" activities) The activity actually has three main parts to it. I had students work in pairs on each activity for about 5- 10 minutes and then we discussed each part as a group. The first part is entitled "Growing Squares" and uses table tops made out of square blocks. The first table ...

The Staircase Problem / Towers / Fancy Staircases

Algebra -> Rate-of-work-word-problems-> SOLUTION: A set of staircases grows at a certain rate.If the rule to find out how many blocks are needed total to make a staircase with n number of steps is $(n)(n)/2+1/2n=y$ then what is the Log On

SOLUTION: A set of staircases grows at a certain rate.If ...

Because this task is similar to the "Handshake Problem" I was able to compare a student's solution to the "Staircase Dilemma" to their "Handshake Problem" solution and look for growth in their problem-solving, reasoning and communication skills. What the Student Will Do. The student will begin by drawing staircases.

Differentiated Best of Math | Staircase Dilemma

This is the first of a series produced by me and Lewelyn Lee from Math for Understanding. We are creating videos that focus on Math explaining concepts and solving problems in unique and novel ...

The Staircase Pattern - Math for Understanding

Growing Staircase Math Problem Solution graduation policy and rates (olson, 2006), the national graduation rate is 69.6 percent. this report estimates that in 2006 more than 1.2 million students—most of them members of minority groups—will

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Session 2, Part D: Counting Stairs (60 minutes) ... Problem D2 : If someone tells you how many blocks there are in staircase n , describe how you could use that to find the number of blocks in staircase $n + 1$. Note 11 ... Look at the following geometric solution for the third staircase. Imagine the rectangle made for the n th staircase.

Session 2, Part D: Counting Stairs - Learner

Problem of the Month: Growing Staircases Overview: In the Problem of the Month Growing Staircases, ... and justifying solutions. In the first levels of the POM, students view a three-step staircase composed of squares (six in total). Their task is to determine the number of squares that make up ... Some have defined mathematics as the science ...

Problem of the Month: Growing Staircases

It is also possible for them to work out the total of blocks for a 10-step stair, and perhaps even a 100-step stair. The first they might do by building the staircase and counting, or by adding up the numbers from 1 to 10. For the second they might use a calculator. If the focus of the problem was the answer, then this could be all we required.

Staircase - Mathematics Centre

To find a solution to the 5 step challenge our first step was to draw a diagram to see the number of cubes. We then worked out how many cubes would be needed for a staircase with 2, 3 and 4 stairs using the same type of diagram. Next we put our data (our findings) into a bar chart to try and find a pattern between the number of cubes and steps.

Up and Down Staircases : nrich.maths.org

Squares To Stairs. This is a great task. To introduce this task ask students to think on their own about how they see the shape growing. After students have an opportunity to draw and describe how they see the shape changing they are ready to engage in group work and further study.

Squares To Stairs - YouCubed

But how many blocks will I need? Can we apply our skill in looking for patterns and use one to answer to the question, "How many blocks are needed to build a 50-step staircase?" "Now I'd like you to work in your groups on this. Here is a box of squares, for each group that you can use in your problem solving."

Teaching Math: Grades 9-12: Problem Solving - Learner

PiPad Problem Solving: Formulating Rules and Finding Patterns with Growing Stairs ... This video shows how the work of Mark Driscoll and the Staircase Problem can be used to challenge students to ...

PiPad Problem Solving: Formulating Rules and Finding Patterns with Growing Stairs

Toothpick Patterns: Growing Squares, Growing Triangles, Growing Stairs We wanted to build off the problem from last meeting, exploring visual patterns, with a focus on different ways of approaching these problems and how can we bring them into the classroom.

Toothpick Patterns: Growing Squares, Growing Triangles ...

Staircase Problem. September 5, 2015 September 6, 2015 Abhinav Dua algorithms, solutions, staircase. This is one of the common problems encountered while studying algorithms . Problem : Input 'N' as the height of the Staircase , Draw a staircase with the given height. Input : 4.

Staircase Problem - Algorithms Solutions

It is likely that students will solve the problem of finding the total Legos in a 10 step staircase by using manipulatives or drawing a picture (Strategies A and B). Encourage students to find the growing pattern and then seek efficient ways to add consecutive numbers (Strategy C) by pairing compatible numbers.

Lesson Study Plans - George Mason University

Problem of the Month - Growing Staircases Level A: This is a staircase that goes up three steps. How many blocks are needed for the first step? How many blocks are needed for the second step? How many blocks are needed for the third step? How many blocks in all are needed to make this staircase of three steps. ...

Problem of the Month - Growing Staircases

Patterns in a Staircase Reporting Category Pattern, Function, and Algebra Topic Exploring patterns Primary SOL 3.19 The student will recognize and describe a variety of patterns formed using numbers, tables, and pictures, and extend the patterns, using the same or different forms. Materials Linking cubes Pattern Staircase Recording Sheet (attached)

Patterns in a Staircase - VDOE

I have to write a rule for Growing Stair cases. I am honestly stuck and i need some help. 1. A staircase has 105 blocks, how many stairs does it have? Don't you need to add 105 plus every number below it to get the answer? 2.How many blocks are needed to make just the one hundredth step? 3. Write a rule to find the number of blocks needed for the nth step.

8th grade math.. Stairs and blocks rules? | Yahoo Answers

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