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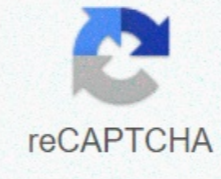**Continue**

Scott the painter math problem answer

My colleague Gayle Smith at LCC passed along a link to a lovely collection of non-routine math problems named Stella's Stunners, created by the Ohio Resource Center. As an example, here's the first. Stella calls this an initial level problem. Scott the painter Scott the painter will paint floors of 16 rooms. He's in #1. He can walk through any door (see chart). He can't return to any room once he's painted it--slow-drying paint! In what order should he paint the rooms? It's #16 must be the last. Internal Joined: 06 Sep 2012 Posts: 4 Location: United States Concentration: Marketing, International Business If Sally can paint a house in 4 hours, and John can paint the same hou [#permalink] Updated at: 18 Feb 2019, 04:35 00:00 Difficulty: 5% (low) Question Stats: 93% (1:06) correct 7% (1:33) wrong based on 498 sessions Hide hours Statistics If Sally can paint a house in 4 hours and John can paint the same house in 6 hours, how long will it take for them both to paint the house together?A. 2 hours and 24 minutes B. 3 hours and 12 minutes C. 3 hours and 44 minutes D. 4 hours and 10 minutes E. 4 hours and 33 minutes Originally posted by MariaF on 02 Nov 2012 , 09:46. Last edited by Bunuel on February 18, 2019, 4:35, edited 2 times in total. Renamed the topic and edited the question. Internal Joined: 05 Sep 2012 Posts: 1 Re: If Sally can paint a house in 4 hours and John can paint the same hou [#permalink] 02 Nov 2012, 10:16 Hello ... Sally can paint a house in 4 hours; Which means that in 1 hour she can paint 1/4th of the house. John can paint the same house in six hours. Which means that in 1 hour she can paint 1/6th of the house. Together in 1 hour they can paint: - 1/4 + 1/6 = 5/12th of the house. Total Hours to Paint the House Together Will Be 12/5 = 2.4 Hours.Hence Answer An Intern Joined: 06 Sep 2012 Posts: 4 Location: USA Concentration: Marketing, International Business Re: If Sally can paint a house in 4 hours and John can paint the same hou [#permalink] 02 Nov 2012, 10:25rinvas280390 Hello wrote... Sally can paint a house in 4 hours; Which means that in 1 hour she can paint 1/4th of the house. John can paint the same house in six hours. Which means that in 1 hour she can paint 1/6th of the house. Together in 1 hour they can paint: - 1/4 + 1/6 = 5/12th of the house. Total Hours to paint the house together will be 12/5 = 2.4 Hours Hence Answer AThanks a lot I really made a stupid mistake:/ Manager Joined: 25 Jun 2012 Posts: 55 Re: If Sally can paint a house in 4 hours and John can paint the same hou [#permalink] 02 Nov 2012, 12:11 MariaF wrote:shrinivas280390 wrote:Hello ... Sally can paint a house in 4 hours; Which means that in 1 hour she can paint 1/4th of the house. John can paint the same house in six hours. Which means that in 1 hour she can paint 1/6th of the house. Together in 1 hour they can paint: - 1/4 1/6 = 5/12th of the house. Total Hours to paint the house together will be 12/5 = 2.4 Hours.Hence Answer AThanks a lot I really made a stupid mistake :/ It would be interesting how to use elimination techniques solve this problem? Manager Joined: 31 Oct 2012 Posts: 57 Schools: Mays '16, Simon '16 Re: If Sally can paint a house in 4 hours and John can paint the same hou [#permalink] 02 Nov 2012, 12:17 MariaF wrote: Guys, please help me solve this easy problem. I think I'm just making a stupid mistake If Sally can paint a house for 4 hours, and John can paint the same house for 6 hours, how long will it take for both of them to paint the house together?A. 2 hours and 24 minutes B. 3 hours and 12 minutes C. 3 hours and 44 minutes D. 4 hours and 10 minutes E. 4 hours and 33 minutesTime taken will be = x * y / x + y = 4 * 6 /4 +6 [A] Manager Ended: 25 Jun 2012 Posts: 55 Re: If Sally can paint a house in 4 hours and John can paint the same hou [#permalink] 02 Nov 2012, 12:22 RJSPO wrote:MariaF wrote:Guys, help me please solve this easy problem. I think I'm just making a stupid mistake if Sally can paint a house for 4 hours, and John can paint the same house for 6 hours, how long will it take for both of them to paint the house together?A. 2 hours and 24 minutes B. 3 hours and 12 minutes C. 3 hours and 44 minutes D. 4 hours and 10 minutes E. 4 hours and 33 minutesTime taken will be = x * y / x + y = 4 * 6 /4 +6 [A] Nice trick, I have to remember it, x * y / (x + y), and if it would be three workers it's just x *y*z/ (x + y + z)? Manager Joined: 31 Oct 2012 Post: 57 Schools: Mays '16, Simon '16 Re: If Sally can paint a house in 4 hours and John can paint the same hou [#permalink] 02 Nov 2012, 12:30 actleader wrote:RJSPO wrote:MariaF wrote:Guys, help me solve this easy problem. I think I'm just making a stupid mistake if Sally can paint a house for 4 hours, and John can paint the same house for 6 hours, how long will it take for both of them to paint the house together?A. 2 hours and 24 minutes B. 3 hours and 12 minutes C. 3 hours and 44 minutes D. 4 hours and 10 minutes E. 4 hours and 33 minutesWe can solve this question quickly using a little talsans. Sally can paint a house for 4 hoursSo if there were two Sallys, they would be able to paint the house half the time. In other words, two Sallys could paint the house for 2 hoursJohn can paint the same house for 6 hoursThen if there were two Johns, they would be able to paint the house for half the time. In other words, two Johns could paint the house in 3 hoursSo, the time it takes Sally and John to paint the house will be between 2 hours and 3 hoursIt allows us to remove B, C, D, and EAnswer: _____ Retired Moderator Joined: 19 Mar 2014 Posts: 900 Location: India Finance Concentration: Entrepreneurship Schools: Haas '20, HBS '20, CBS '20, Wharton '20, Kellogg '20 GPA: 3.5 Re: If Sally can paint a house in 4 hours, and John can paint the same hou [#permalink] 14 Nov 2012, 03:13 \(\frac{1}{4}+\frac{1}{6}=\frac{10}{24}=\frac{5}{12}\)\(Rt=W -&frac gt: \frac{5houses}{12hrs}xt=1\)\(t=\frac{12}{5}=2\frac{2}{5}hours=2 hours and 24 minutes\)Reply: B Current Student Joined: 22 Nov Posts: 246 Concentration: Leadership, Strategy Schools: Wharton Exec '22 (A), Haas EWMBA '23 (A) Re: If If Can paint a house for 4 hours and John can paint the same hou [#permalink] 26 Jun 2017, 15:48 \(W=\frac{AB}{A+B}\), where A and B are rates and W is the work done. A=4; B=6\(W=\frac{24}{10}\)How to convert to minutes \(= \frac{24}{10}*60 = 144\) minutes120+24 minutes , i.e. and John can paint the same hou [#permalink] Updated at: 02 Apr 2020, 06:55 MariaF wrote: If Sally can paint a house in 4 hours, and John can paint the same house for 6 hours, how long will it take for them both to paint the house together?A. 2 hours and 24 minutes B. 3 hours and 12 minutes C. 3 hours and 44 minutesOutput = 1 House to paint , Time = 4 hours , Sally's rate =1/4Output = 1 House to Paint, Time = 4 Hours, John's Rate = 1/6Together their work rates are 1/4+1/6 = 10/24TArget Question : How long will it take for both of them to paint the house together? Time = Output/ Common speed= 1 / (10/24)=12/5 hours or 12/5*60 = 144 minutes144 Min =2 hours and 24 minutes (A) A)

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