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Step 1. Number Division

22	2
23	3

Step 2. 22 2  
23 3  
— / —  
6

Step 3. 22 2  
23 3  
— / —  
50 / 22 + 3 = 25 or 23 + 2 = 25

Step 4. 22 2  
23 3  
— / —  
= 506

**Vedic Mathematics Tricks and Shortcuts**  
www.mathlearners.com

Vedic Mathematics is a system of mathematics which was invented by Indian mathematician Jagadguru Shri Bharathi Krishna Tirthaji Maharaj in the period between A.D. 1911 and 1938.

It consists of 16 Sutras (methods) and 13 sub-sutras (Sub-methods). Vedic Mathematics' methods are highly efficient when it comes to calculation of regular arithmetics like subtraction, multiplication, division of numbers and polynomials, squares, square roots, cubes, cube roots, solving equation, partial fractions, derivatives, conics, etc.

**Vinculum Numbers / Vinculum Process:**

Vinculum Process forms the very basic requisites for Vedic Mathematics. Vinculum is a Sanskrit word which means a line i.e. bar over number i.e. negative digits. Vinculum numbers are numbers which have atleast 1 digit as a negative digit. Vinculum numbers/digits are also called as Bar numbers/digits.

Eg: Vinculum number converted to normal number using Place Value concept.

$$2\bar{3}4\bar{5} = 2000 + 300 + 40 - 5 = 2335$$

$$2\bar{3}\bar{4}5 = 2000 + 300 - 40 + 5 = 2265$$

$$2\bar{3}\bar{4}\bar{5} = 2000 + 300 - 40 - 5 = 2255$$

**Another Method of Conversion of Vinculum number to Normal number:**

- Follow R -> L approach.
1. Find 1st Bar digit and take its 10's complement.
  2. a) If next digit is again Bar digit then take its 9's complement. Continue taking 9's complement till non-bar digit is obtained. b) Decrement non-bar digit by 1.
  3. Continue (1) & (2) till complete number is covered.

**Conversion of Normal number to Vinculum number:**

- Follow R -> L approach.
1. Find 1st digit > 5 & take its 10's complement with a bar over it.
  2. a) If next digit is again > 5, take its 9's complement with a bar over it & continue this till a digit < 5 is obtained. b) Increment < 5 digit by 1.
  3. Continue (1) & (2) till complete number is covered.

Conversion of Vinculum numbers to Normal numbers and vice versa is very important for other concepts of Vedic Mathematics.

For more tricks on Vedic Mathematics visit [www.mathlearners.com](http://www.mathlearners.com)

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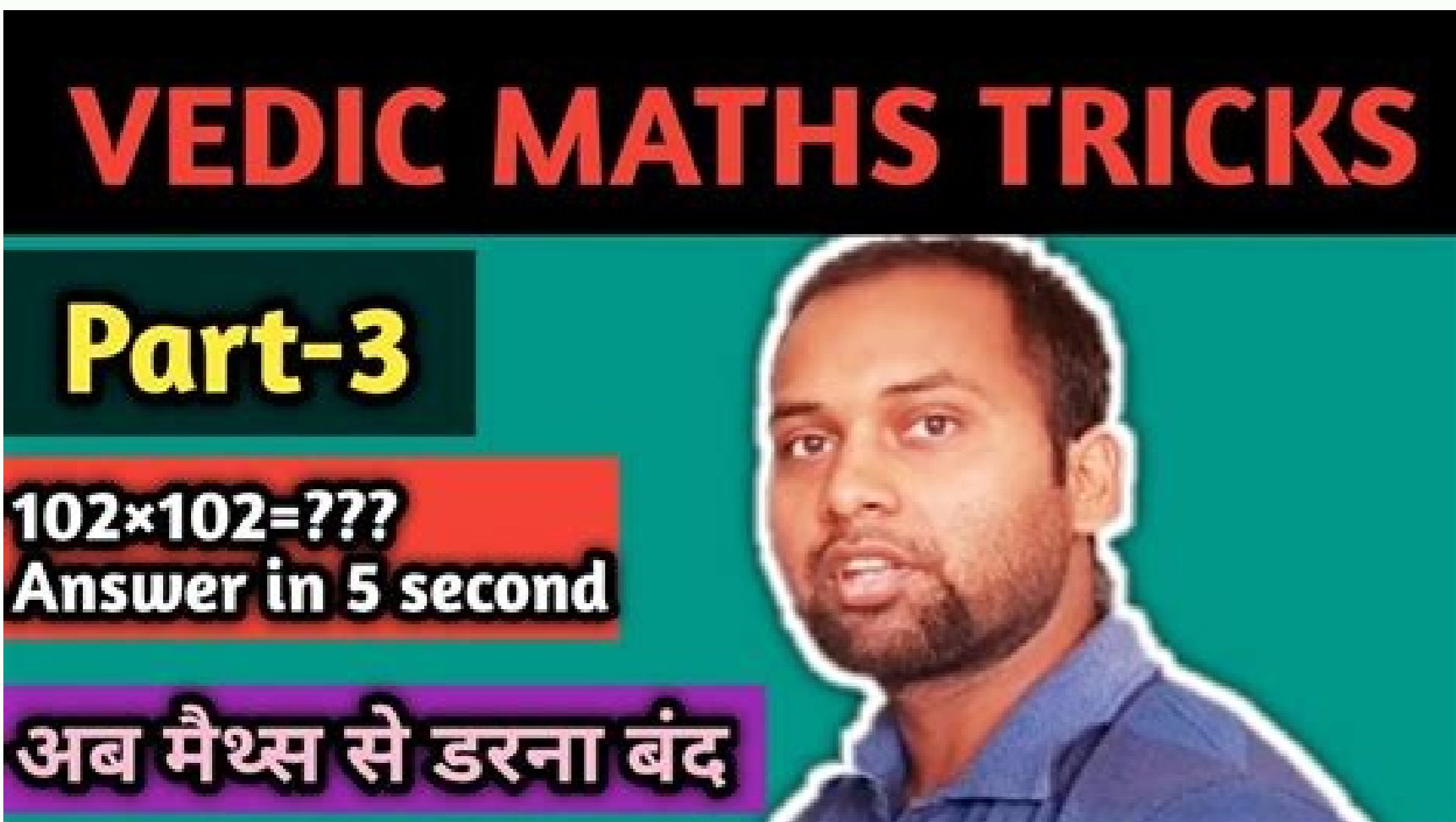
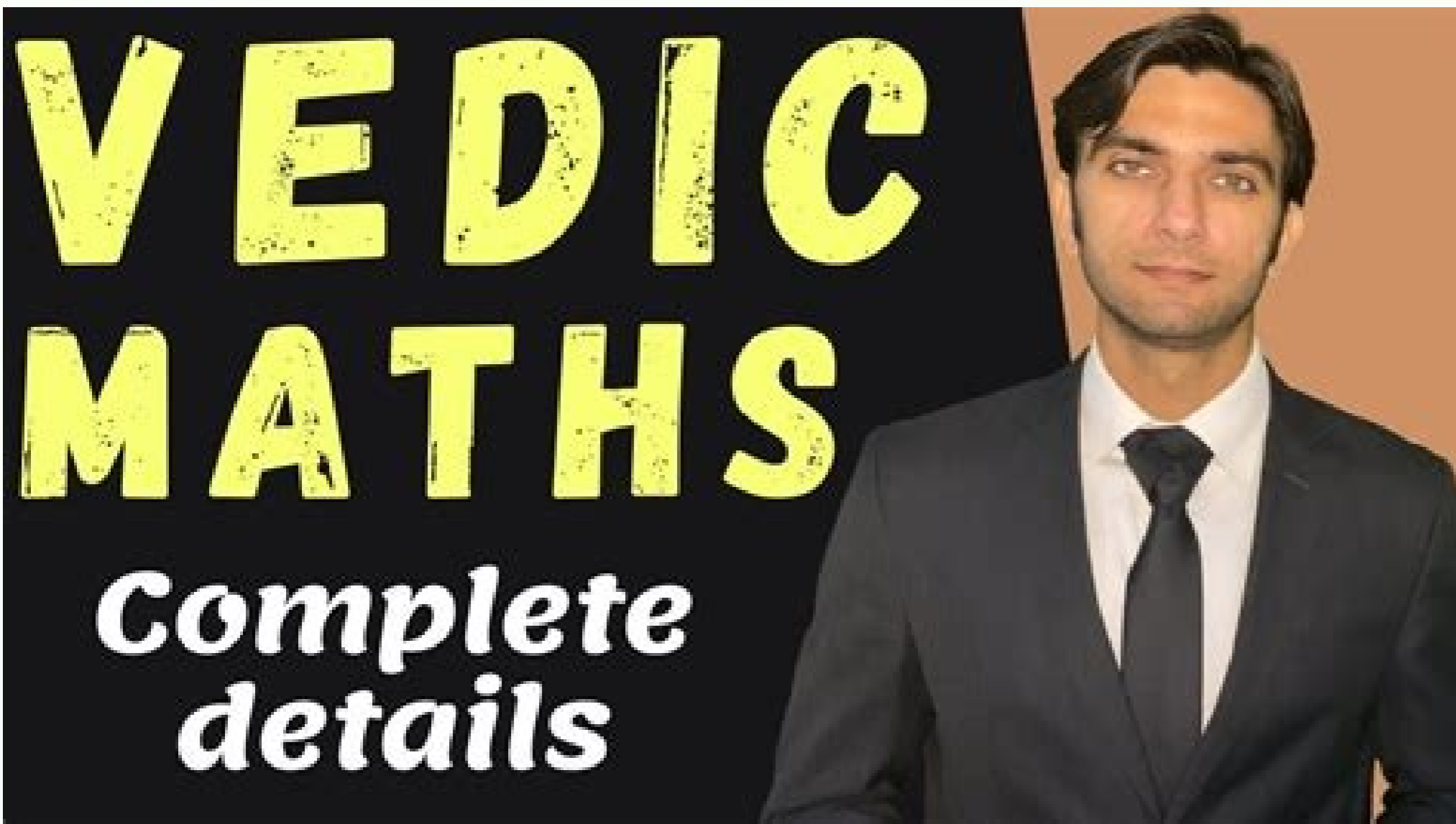
Pause the Video and memorize.

Tables													
12	13	14	15	16	17	18	19	20	21	22	23	24	25
24	26	28	30	32	34	36	38	40	42	44	46	48	50
36	39	42	45	48	51	54	57	60	63	66	69	72	75
48	52	56	60	64	68	72	76	80	84	88	92	96	100
60	65	70	75	80	85	90	95	100	105	110	115	120	125
72	78	84	90	96	102	108	114	120	126	132	138	144	150
84	91	98	105	112	119	126	133	140	147	154	161	168	175
96	104	112	120	128	136	144	152	160	168	176	184	192	200
108	117	126	135	144	153	162	171	180	189	198	207	216	225
120	130	140	150	160	170	180	190	200	210	220	230	240	250

Squares		Cubes	
12	144	12	1728
13	169	13	2197
14	196	14	2744
15	225	15	3375
16	256	16	4096
17	289	17	4913
18	324	18	5832
19	361	19	6859
20	400	20	8000

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How many tricks are there in vedic maths. Vedic maths tricks for fast calculation in hindi. Vedic maths tricks for fast calculation in hindi pdf. Fast tricks for maths calculation.

@MathCoachCorner/Twitter Collaborate with Teachers and Parents Whether you're a teacher or a parent, it's always a good idea to collaborate with each other. Sixth graders showed the biggest improvement, with the intervention group mastering an average of 24.35 math facts versus the 7.46 facts mastered by the control group. It's critical to be vigilant about what you say when it comes to talking about math and helping them with it. For example, if students are struggling to understand how a fraction with a larger number on bottom could be smaller than a fraction with a smaller number on bottom, introduce some real-life items — like maybe large cookies — and let them explore the differences between dividing something into 10 pieces versus dividing it into four pieces. @mathematicsprof/Twitter Plan in Advance For most parents, students bring home specific items as homework, and they simply need to be prepared to help with what they're given. @mathematicsprof/Twitter Some students love math — others not so much. @MathCoachCorner/Twitter Reward Progress No matter what subject you're working on with your child or student, it's important to reward progress. It outlines the skills and knowledge public school students must acquire for each grade level. Teachers should keep parents informed about exactly what they've been doing in class, while parents — who are generally the ones called on to help out at home on a more one-on-one basis — should seek guidance from teachers and inform them of any problem areas that are particularly challenging. Reward your student as you go with simple but cool treats like setting up a math game to play on a computer or mobile device in place of a regular study session. @MathCoachCorner/Twitter Apply Math to Real-World Scenarios When you talk to students, it becomes clear that one of the key problems with math for many of them is that it just seems too abstract for them. For example, instead of just giving them an exercise or worksheet to complete, you could prepare several different exercises and let them choose what they want to do. @MathCoachCorner/Twitter Encourage Curiosity Big ideas in math tend to naturally inspire curiosity, but curiosity is a valuable tool even for basic concepts. They feel that way because they don't understand all the ways math relates to daily life in the real world — so show them! Applying equations, formulas and geometry to common tasks they can see and participate in helps students understand just how important math is in our lives. An experiment involving students using Fast Math versus two other groups receiving traditional instruction, found students using the technology achieved an average of 12-19 more facts than groups not using the technology. Teachers track student progress and generate reports by the using the Scholastic Achievement Manager. Meeting the Common Core Standards In 2009, a task force led by then Arizona governor, Janet Napolitano, helped launch the Common Core State Standards, or Common Core. Fast Math creators had this motivation in mind when developing the mathematics intervention software. Don't put off giving them rewards for their hard work! They shouldn't have to wait until they achieve big things like getting A's on report cards or outstanding test scores. Don't forget to include plenty of time for questions and allow them time to truly understand the concepts before moving on to the next topic. With a positive approach, you might be surprised to see how much progress your child starts to make. Based on the results, evaluators recommended the program to continue. @MathCoachCorner/Twitter Personalize Math Assignments Numbers sometimes work in very interesting ways. Teachers may also identify students in subsequent grades who could benefit from the program. Math may feel a little abstract when they're young, but it involves skills they will need in life long after they're out of school. @mathematicsprof/Twitter Be Positive Kids' brains are like sponges, and they absorb all kinds of remarks and suggestions from adults — both positive and negative. Students at all levels showed improvement. Fast Math utilizes the Fluency and Automaticity Through Systematic Teaching with Technology systems. The technology also seems to help with retention. That might work in a history class, but for math, it's critical to really understand the mathematical concepts to achieve long-term success. They will enjoy it a lot more than a certificate or badge. Participating students are assigned a username and password with which they can gain access to the program from school or home on a 24/7 basis. New educator dashboards allow teachers to track progress towards Common Core goals. Be sure to encourage curiosity and questions at all times, especially when you're helping them with new or challenging concepts. The lessons are divided into three groups: Fast facts are facts that the students have mastered, meaning it takes students an average of 1.25 seconds to answer accurately. Focus facts are facts that students are working on mastering. Don't let them do it! Instead, raise the bar with even bigger challenges to send a powerful signal that they are always expected to do their best. If you don't encourage understanding over memorization from the beginning, students could find themselves on shaky foundations as the math gets progressively harder. In short, that means some problems can be solved in more than one way. The standards set by Common Core called for students to be fast and accurate in all four (mathematical) operations in order to succeed in higher-order math. Fast Math Next Generation To help students meet Common Core Standards, Scholastic introduced Fast Math Next Generation in 2012. When that's the case, it's vital to look at the topics students need to know for their exams, and it takes some advance planning to make sure you cover all of them in detail. However, teachers and parents who homeschool follow a curriculum. Work to build confidence from the outset — perhaps with a fun game that reinforces beginning math concepts — to ensure you take that fundamental first step to helping your child learn and succeed. Raise the Bar Okay, every student won't fall in love with math, even after you build their confidence and show them they can learn it. While it's certainly true that some students understand math concepts more quickly than others, everyone can learn math with the right techniques and tools. @mathematicsprof/Twitter MORE FROM QUESTIONSANSWERED.NET Most students' struggles with higher-order math can be traced to gaps in knowledge of basic math facts. @memesmoney/Twitter Prioritize Understanding, Not Memorization In the academic world, too much emphasis is sometimes placed on memorizing information for exams. If you're not sure where to start, take a look at these time-tested ways to help students with math. In fact, some students find math to be difficult and dislike it so much that they do everything they can to avoid it. Students in the Fast Math group were tested again after four months and only lost six facts. A Fast Math evaluation conducted by EMU students seems to support Scholastic's results. Even if you start to feel frustrated yourself, take a short break to relax and then seek guidance from online sources or another person to help you figure it out. MORE FROM QUESTIONSANSWERED.NET Giving students some control over how they learn allows them to adapt and incorporate their strengths, and it also conveys your belief in their ability. For mathematics, this implies that to be successful in higher-order math, students have to be able to retrieve basic math facts accurately and fluently, that is "automatically with understanding," according to Scholastic Foundation Research. How It Works Students in participating schools are assigned a Fast Math account in second grade. Middle schoolers were tested and randomly placed in either an intervention group using Fast Math or a control group receiving traditional instruction. This will keep you on track and help you get past hurdles quickly. As a result, some may try to get away with only doing the bare minimum to get a passing grade. They are far more likely to be enthusiastic about a task they gave themselves. Study facts are facts that students will work on the next day. A review page allows students to "preview" the focus facts for the day's lesson. Above all, stay positive and don't express a negative attitude that your child is likely to mimic. After four weeks, students were tested again. @MathCoachCorner/Twitter Additionally, letting their curiosity guide them gives them a chance to discover their own passions for the particular subjects they may enjoy most. Rationale for the program is based on the idea that humans are limited in how much information they can retain to solve problems. Build Confidence Some students who struggle to understand certain math concepts become discouraged and start believing that math simply isn't for them because they aren't any good at it. Whether you're a parent helping your child at home or a teacher in the classroom, tackling the process with the right teaching methods can make a huge difference. That makes math important for more than just a grade on a report card. A typical lesson takes 10-15 minutes. Upon completing a lesson, students can choose from several timed games designed to review both Fast Facts and Focus Facts. Scholastic Education developed Fast Math to help students close these gaps by developing math fluency through technology. What Is Fast Math and Who Is It For? Technology motivates students. In the sports world, this often comes in the form of medals or trophies. Games, such as STRETCH-To-Go are specifically designed to target Common Core standards, according to Scholastic Media News. Proven Effective Fast Math gets results. Validated over several years with hundreds of students, results show that by using the technology "for 10 minutes a day most math-delayed students can develop fluency," reports Scholastic Research.

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