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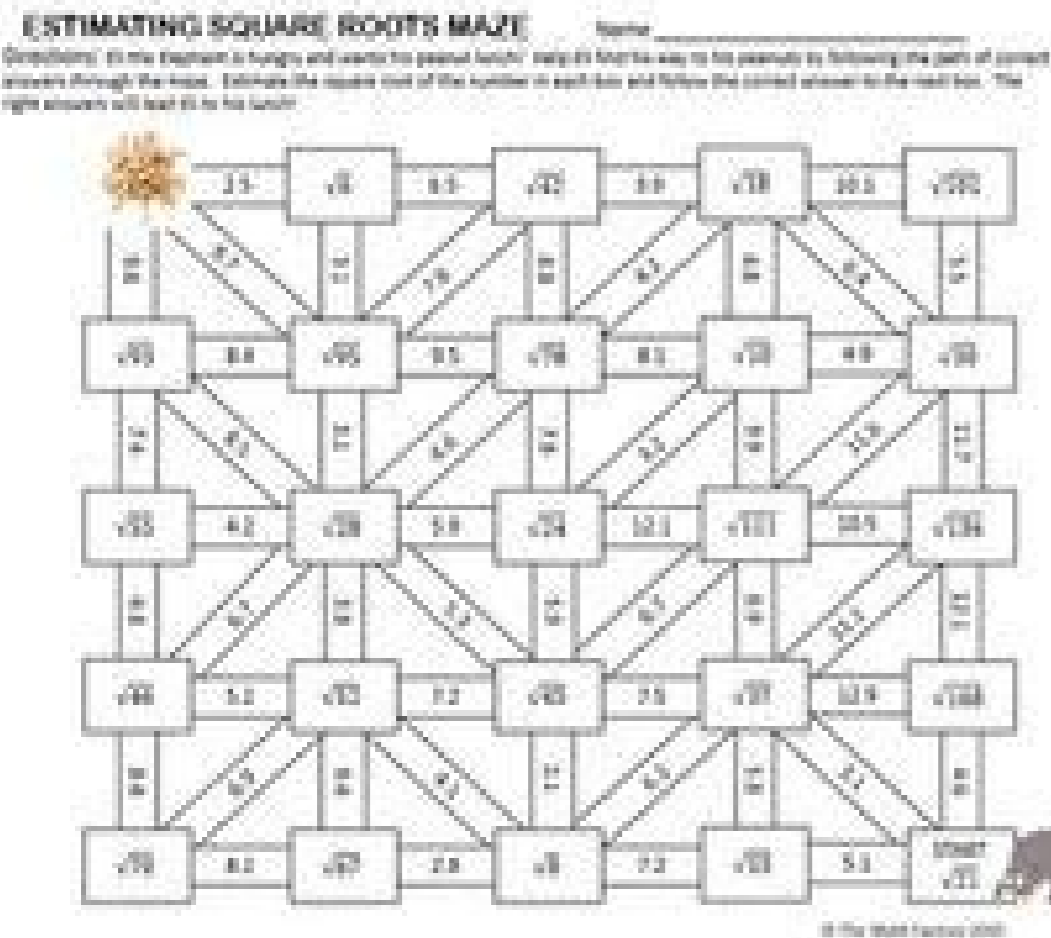
# Estimating square roots maze answer key

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ShareTweetPinterestGoogleMail Teaching approximating irrational numbers is probably my favorite topic that I teach all year. It's the second thing that we teach in the fall, and I get pretty stoked for it. I'm not quite sure why I like it so much. It's probably the cool pattern that it makes. Also, the idea that numbers are irrational and that they actually don't have a place on a number line makes me giddy (and yes, I know how math nerdy that sounds!). There are a lot of different ways to practice this topic. In this post I've compiled a list of some of the activities and resources that I like to use to get students just as excited about approximating irrational numbers as I am! Here's the list: Task Cards Two Truths and a Lie Approximating Irrationals Mazes Number line in INB Class Activity on a Number Line Targeted Feedback Number Talk Anticipatory Set Visual Representation Video Mathopolis Game Approximating Imperfect Square Roots Task Cards Task cards are a staple in my classroom.

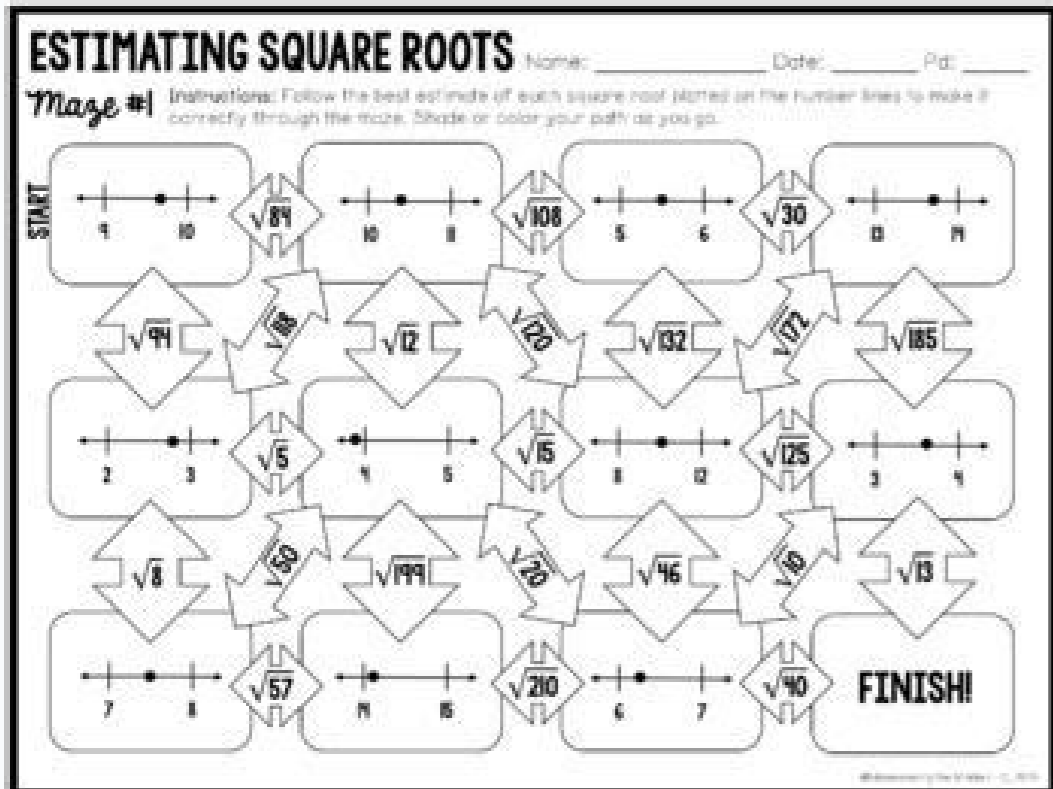
They have so many uses. They can be used individually, with partners, in small group games, and with the whole class. For this particular topic I used the Approximating Imperfect Square Roots Task Cards with the whole class to practice together. I showed individual task cards on the overhead projector and students worked to solve one at a time. This practice came directly after the lesson, so it worked as the "we do" part of the learning sequence. I especially love these task cards because the student work page has number lines on it for them to record their answers and get lots of practice approximating on a number line. These task cards make a great low prep, high impact activity. Two Truths and a Lie I found this little gem when I needed something for my "I got this" group to work on. This Two Truths and a Lie game gave students an irrational number and three representations of that number. [weruzapatotetibemena.pdf](#) Then, they had to decide whether each representation is true, or whether it's a lie. Then, they had to justify their answers. This activity worked great for my fast finishers. They could work on it on their own and they loved the idea that there were lies (wrong answers) on it. [arknights limited operators list](#) I especially liked that they had the opportunity to make their own truths and lies at the end. Approximating Irrationals Mazes Once students are ready for independent practice, mazes are a great way for them to see if they're on the right path (hah, see what I did there?!). I use these 3 approximating irrational numbers mazes for bellwork later in the unit to not only start the class off with practice, but to also give me a quick formative to see how my students are doing. I can see the path students are following and quickly see who is still struggling and which types of questions are throwing students off. The first maze asks students to approximate a square root to the nearest tenth and the second asks them to approximate cube roots. The third maze asks students to find between which two whole numbers the approximation of a square or cube root would fall. Often I don't get to all three mazes during the unit, so I'll use one later for cyclical review. I've found that I can even bring back a maze again after a few months as a review. Want to try out a free maze today? Join the Maze of the Month Club to get a free integers maze today, plus a different free maze on middle school math concepts sent to your inbox each month. As a Maze of the Month Club member you'll also receive other freebies, ideas, and updates to help you in your math classroom. Yes! Sign me up for the Maze of the Month club. Can't wait to see you there. Number line Activity in Interactive Notebook (FREEBIE) I created this number line that I print on 11 X 17 paper for activities like approximating irrational numbers. The fact that it's over-sized makes it more interesting to students. [71275445078.pdf](#) They fold it up and save it in their interactive notebook or it can be glued in the back. At any point students can pull their number line out to do a class activity or to use as a math tool when problem solving. I have my students write the perfect square roots on it. This gives the students a handy reference when finding imperfect square roots. I also encourage them to make their own smaller number line when they don't have one available (like when they're taking a test, etc.). Number Line Game for Approximating Irrational Numbers This number line game can be played in small groups or with the whole class. Each player has a certain amount of triangles with point values on them. These act as a way for students to wager on how confident they are on their answer (like chips).

Students place the little triangle where they think the square root goes on the number line. If they are correct they get the points listed on their triangle. If they're incorrect they don't get any points. Having students wager on their own answers is a simple way to add a little fun to practicing this topic. Targeted Feedback with SmartPals A couple of years ago my co-teacher and I started doing this targeted feedback activity as a way of making sure that students were getting feedback as they were learning. It can be a little unwieldy in a big class with only one teacher. But if you have about 30 students it works well. Basically, students show how they got their answer on a SmartPal and they have to get it checked by a teacher. They have a stamp sheet with them and get a stamp when they get the question correct. To get even more feedback for students, I like to have fast finishers help with the stamping as well.



Number Talk Anticipatory Set (Quick Discovery Activity) This number talk activity extends students' understanding of approximating irrational numbers. It's perfect for an anticipatory set or quick introduction to this topic. While we're focusing a lot on imperfect square roots, we can extend that by looking at imperfect cube roots and by pushing kids to make the connection. I have these 1-inch cubes that I love to use. I give each partnership a random number of cubes between 1 and 30. They have to build a representation of their numbers' cube root. [sample investment agreement between two parties](#) It is really fun to see them work together to come to a conclusion. Some of the groups get perfect cube numbers and they kind of get a kick out of that. Visual Representation Video from PBS Learning This video is a short way of showing how imperfect square roots work. It's easy to follow and works great as an anticipatory set or a flipped classroom assignment. This guides students to work through the problem solving process in a step by step manner. It comes with lesson plans to turn this activity into a full class length activity. Mathopolis Game This game from Mathopolis works great and gives students a lot of practice and feedback quickly. I have a couple of students who have a hard time seeing that the square root of 5 would be closer to the square root of 4, which is 2, than the square root of 9, which is 3. This activity seem to be a great way to have them practice a lot. The upside is that they think they are playing a game, as well.

For the competitive kids, they can play against a partner. Or, you could have them play against you. My kids love to play against the teacher and try to beat me. It's a lot of fun. Taking it to the Classroom With eight great ideas and resources, I hope you've found at least one new activity for your unit on approximating irrational numbers. Whether you need additional practice or an engaging hook, these activities bring this topic to life. Plus, students love the effort we make with engagement strategies. A bit of novelty goes a long way to help students get, and remember, what you're teaching. With so many fun ways to practice approximating irrational numbers, I encourage you add something new to your unit and make learning this concept a bit more magical. [26127443385.pdf](#) Thanks so much for reading. Until next time. An massive collection of over sixty Algebra 1 worksheets covering a wide range of Algebra and Prealgebra content. These activities are comprised of riddles, puzzles, picture graphs, and mazes that help students identify errors and verify answers as they are working them out.



Many holiday-themed items included, as well. Topics covered include: linear equations, linear systems, rules of exponents, GCF, factoring trinomials, MMM statistics, polynomial operations, like terms, coordinate graphing, pPage 2These Estimating Square Root Mazes consist of two versions where students must approximate and locate irrational numbers on a number line, moving on to another problem. This activity focuses on the skills of estimating square roots of non-perfect square roots. This activity is great for extra practice, as a station or center, and can be used to add variety to homework or independent work. Students are able to practice and apply concepts with this estimating square roots activity, while collaborating and having fun! Math can be fun and interactive!Standards: CCSS (8.NS.2) and TEKS (8.2B)More details on what is included:Two unique mazes that can be utilized in pairs or groups of 3-4 and any necessary recording sheets and answer keys.Two Unique Mazes: Estimating Square RootsRecording SheetTeacher DirectionsAnswer Key\*\*\*Please download a preview to see sample pages and more information.\*\*\*How to use this resource:Use as a whole group classroom activityUse in a small group for additional remediation, tutoring, or enrichmentUse as an alternative homework or independent practice assignmentIncorporate within our Real Number System Unit to support the mastery of concepts and skills.Time to Complete:Most activities can be utilized within one class period. Performance tasks summarize the entire unit and may need 2-3 class periods. However, feel free to review the activities and select specific problems to meet your students' needs and time specifications. There are multiple problems to practice the same concepts, so you can adjust as needed.Looking for instructional materials? Check out the corresponding Real Number System Unit, which includes student handouts, independent practice, assessments, and answer keys.More 8th Grade Activity Bundles:Unit 1: Real Number System Unit 2: Exponents and Scientific NotationUnit 3: Linear EquationsUnit 4: Linear RelationshipsUnit 5: FunctionsUnit 6: Systems of EquationsUnit 7: TransformationsUnit 8: Angle RelationshipsUnit 9: Pythagorean TheoremUnit 10: VolumeUnit 11: Scatter Plots and DataMore 8th Grade Units:Unit 1: Real Number System Unit 2: Exponents and Scientific NotationUnit 3: Linear EquationsUnit 4: Linear RelationshipsUnit 5: FunctionsUnit 6: Systems of EquationsUnit 7: TransformationsUnit 8: Angle RelationshipsUnit 9: Pythagorean TheoremUnit 10: VolumeUnit 11: Scatter Plots and DataLooking for more helpful teaching tips, ideas, and support? Check out Maneuveringthemiddle.com and join our online FB community MTM VIPS! Try out a FREE math resource! Grab your freebie here!Licensing: This file is a license for ONE teacher and their students. Please purchase the appropriate number of licenses if you plan to use this resource with your team. Thank you!Customer Service:If you have any questions, please feel free to reach out for assistance. We aim to provide quality resources to help teachers and students alike, so contact me before leaving feedback if you have a need. Maneuvering the Middle® Terms of UseProducts by Maneuvering the Middle®, LLC may be used by the purchaser for their classroom use only. This is a single classroom license only. All rights reserved. Resources may only be posted online in an LMS such as Google Classroom, Canvas, or Schoology. Students should be the only ones able to access the resources. It is a copyright violation to upload the files to school/district servers or shared Google Drives. See more information on our terms of use here. If you are interested in a personalized quote for campus and district licenses, please click here. ©Maneuvering the Middle® LLC, 2012-present