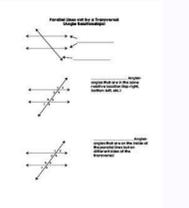
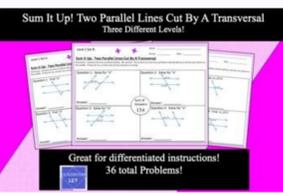


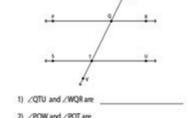
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Write the angle relationship for each pair of angles.



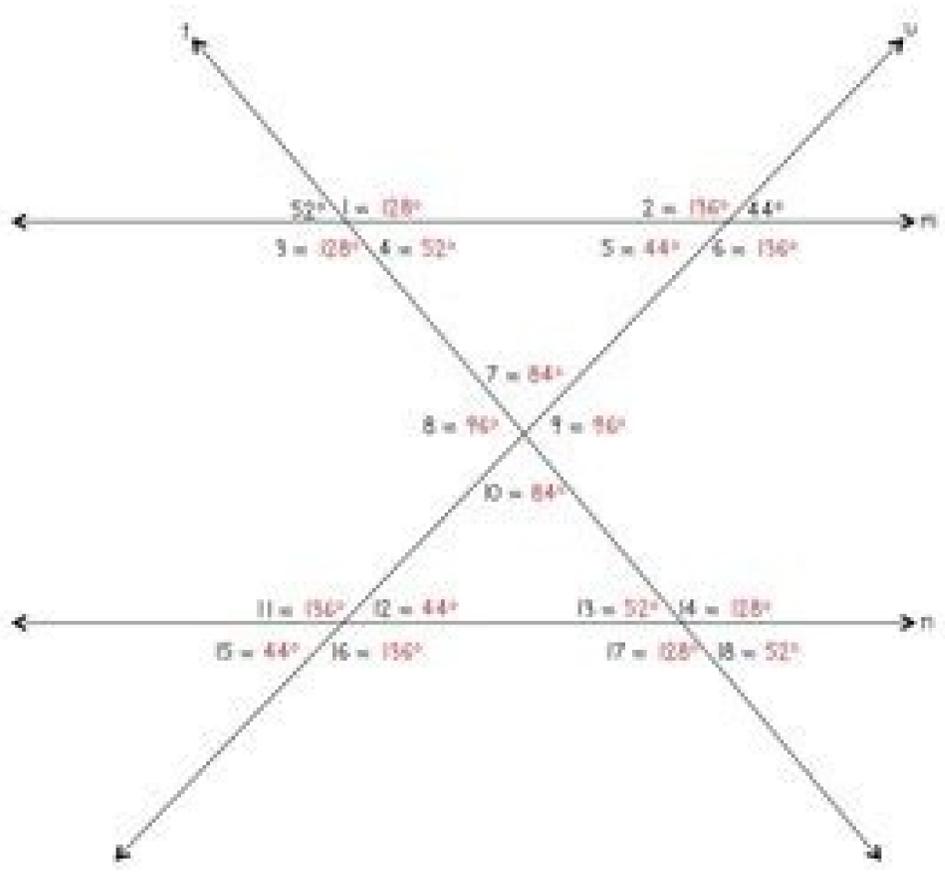
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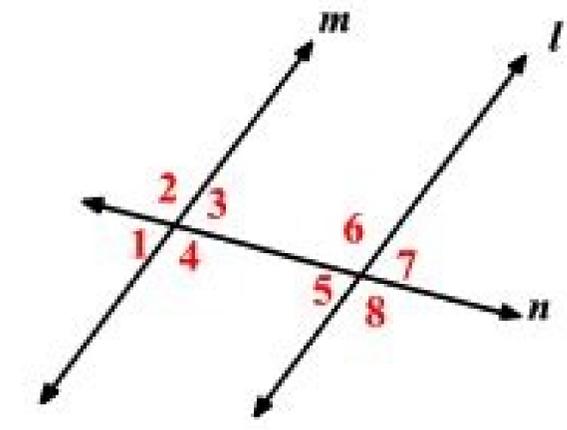
Parallel Lines Cut by a Transversal

A Mathematical Puzzle – Answer Key

Directions: Determine the measure of each of the labeled angles given that lines m and n are parallel.



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It's a great opportunity to remind students about growth mindset and how learning from our mistakes is an essential part of learning. The biggest takeaway from my ESL experience is that students need a lot of repetitions before words are adopted into their lexicon. You can add one new activity to your teaching tool belt. You'll notice that the coloring part is very small. I can't really explain it (although I tried here), but I got such good feedback from students on mazes. It has a variety of questions related to parallel lines cut by a transversal. Unfortunately, it's not always so easy for students to see the pattern. Students simply enter the game code, type their name, and they're off. Students love doing mazes. It shows you how each student did, as well as how the class did on each question. If they draw over the angles themselves, then they can more easily see that two sets of four angles have the same measure. Due to the fact that learning about angles is visual, you can put a picture of parallel lines cut by a transversal on the inside of the SmartPal and then have students work with it that way. Dance, Dance, Transversal Dance, Dance, Transversal is an idea that I found on Pinterest. Students don't spend very much time coloring, but it's still an engaging little bonus. I would encourage you to just try one new thing. When you join the Maze of the Month Club, you get a free integers maze today. Click this link to read more about this fun activity. It was awesome to know that students could work on this activity and get immediate feedback without my being there. They go absolutely crazy for them! This week I played this knockout game with them as a class. In fact, I've gotten to the point where I now start every class period with a maze as bell work. This whole class game acted as a quick way to practice these words in an engaging fashion. This allowed us to give everyone a place to play. Students can also compete against a friend or try to beat their own best time. I used to teach English to students who were learning English as a second language as middle schoolers. That's what this set of three mazes can do. I usually give students a couple of questions to answer as they watch the videos. I tried this activity in my class with a few variations. As I searched for activities to share in this post, I definitely curated these activities with both pattern recognition and vocabulary development in mind. Sometimes I just love that I have them in hand for a sponge activity. They are given a set of directions related to a map and they have to find a solution. Basically, the activity is inspired by Dance, Dance Revolution and requires some painter's tape and a prepared pattern of angles, or moves, that students will need to do (can be in a PowerPoint). These 3 mazes include practice with identifying angle relationships, finding the measure of missing angle and solving for x in an equation. Here's the list of the 12 13 activities: Parallel Lines Cut by a Transversal Mazes Tracing Paper Discovery Activity MangaHigh Practice Game Angle Pairs-Beat the Clock Shmoop Video Task Cards Dance, Dance, Transversal Coloring Activity Find the Missing Angle in Triangles Mazes Knockout Game Whiteboard Illustrative Mathematics-Street Interaction Kahoot In addition to a summary and explanation, I'll also share my own experiences and some ideas that go with each of these activities: Parallel Lines Cut by a Transversal Mazes My students love practicing with math mazes. You'll see that students learn the vocabulary words related to this topic if they have a variety of activities to practice vertical angles and corresponding angles. After this, I am planning for students to logon to their Google Classroom account and complete the following "maze activity." You can find the Google activity when you click here. Also, this topic gives the opportunity to teach students a lot of math vocabulary. The answers can also be printed on the back of the cards. One of the students was trying to remember the pattern when he was taking completing his exit ticket. Above all, this activity helps students practice words related to angle relationships. The first two mazes help students to practice finding a missing angle in a triangle. I really haven't changed this setup in the past 3 years since it seems to be working. The third maze is for finding a missing angle on the exterior of a triangle. At the end of the game on the last question I let them wager from zero to all of their points. Then, I'd call out the next one. Also, it works well as a review activity. Kahoot This Transversals Kahoot game is a great quick check to see where students are after a lesson. After this, students make a group poster over parallel lines (I will upload a picture as soon as I get back to work). Parallel Lines w/ Algebra INB Pages: This is pretty simple but students will be doing 6 example problems in their notebook. I had my kids work on these task cards one day when I was absent and at home with my sick toddler. It can be difficult when students do this type of activity for the first few times. We can't wait to see you there! Tracing Paper Discovery Activity One of the biggest issues I see with this topic is students lack of seeing any patterns. One of my favorite part of using these boards is that I can see everyone's work very easily. Students get excited for this game-all you need is a technology device. It was a very visual and kinesthetic way for students to practice their vocabulary words. This activity works as practice and a drill. Thanks for reading. They kept track of their own points. However, I find that the more they are challenged to explain their rationale, the better they get at it. I think this would be especially helpful if you did it a couple of minutes a day over the course of a week. The activity guide gives them a different way to see angles and they have to explain their thinking through this process. These are words that they don't just know. To read more about how to play knockout games, check out this post. This particular activity is not too challenging and pushes kids just far enough. If you want to download one of the graphic organizers we use for whiteboard practice, for FREE, click here. But I also knew that it would be a fun and easy way to give students a "pay off" for working hard. Are you new to math mazes? Students find it funny and always get a good laugh out of it :) Congruent Vs. Supplementary Card Sort and Chart: These pages are really aimed to help my ELL and special education students. Some of them are very use to just giving an answer. Angle Pairs-Beat the Clock This Angle Pairs Game focuses on the vocabulary words related to this topic. I'd call out, "Alternate angles," for example, and they'd quickly place their glue sticks accordingly. Parallel Lines Cut by a Transversal and Angles of Triangles Task Cards Task cards have so many uses. I use these mazes as bellwork during the week we're learning this topic, and then again later in the year as cyclical review. These worked perfectly for sub plans. MangaHigh Practice Game This game from MangaHigh would be good as an anticipatory set or for fast finishers. This post may contain Amazon affiliate links. When I designed these particular task cards I made sure to include a variety of question types. Many of the questions are similar to each other, so students could learn from their mistakes and make corrections through the course of the game. loading... The first time I didn't have them write anything. ShareTweetPinterestGoogleMail The patterns that are made when a parallel lines are cut by a transversal are really cool to recognize. Many things about teaching this class surprise me. Mazes keep students working as they try to reach the end of the maze while sharpening their math skills. Parallel Lines, Skew Lines, and Parallel Planes Foldable: Parallel Lines Cut by a Transversal Foldable: I have used this foldable for the past three years but I do need to change "Same-Side Exterior Angles" to "Consecutive Interior Angles" (ducks head in shame). Coloring Activity I have to say that when I first saw coloring activities for math class, I thought the coloring part was a waste of time. Then, the second time I asked them to write while they watched and then wrap up afterwards. They used glue sticks and would move them according to the pattern that I gave them. Ultimately, students are doing a whole bunch of practice, but it's presented in a way that's engaging. At the very end of the game when it asks if you can save reports make sure to click there. They loved it! The questions in this game are fairly simple, so I used it as a practice activity right after finishing our notes on the vocabulary related to parallel lines cut by a transversal. Students have to race against the clock and are awarded points as they play. Students get a chance to look at transversals and triangles. I had to let them watch this video two times. Many of the practice activities listed below for this topic bring a chance to look at things visually. Shmoop Video I like to use Shmoop videos as anticipatory sets. Try one thing... So, I've presented a lot of different ideas in this post. In the post, painter's tape is arranged on the ground and students place their feet to show correct angle relationships. We also play a dance, dance, transversal game with our fingers on the foldable (my room is way too small for students to be able to stand up). I can give everyone feedback in less than a minute and do a quick check of where my students are at. I have a couple of graphic organizers that I put inside that makes for quick practice. They make great bell ringer activities, math stations, homework assignments, or cyclical review. Ultimately, the points aren't really worth anything, but my students sure do love to collect them. Giving them engaging ways to practice will give them the repetitions that they need to move these words to their long term memory. Until next time! Want to check one out today? Plus, each month you'll receive a maze for a different middle school math topic. In this video on parallel lines and transversals I have students write down three things that they understood about transversals from the video. They need to use target words over, and over, and over again in a variety of meaningful ways. One of the drawbacks is that it's pretty competitive and some kids give up when they fall out of the high scores. Thanks for your support of this blog. One of the new things that I recently discovered about Kahoot is that it generates reports that you can save to your Google Drive. I use it for fast finishers. It's something that you could have students play for a few minutes at a time. Just enter your email below: Yes! Sign me up for the Maze of the Month club. It can be fun and you can play it, too. I find that card sorts really help my lower level students. One of them is how much my students love games. So, teaching students about transversals offers a great opportunity to reinforce with students the good mathematical practice of always looking for patterns in mathematics. This activity is very simple to complete. Some of the kids don't like to do the coloring part, but it really is a great brain break. This comes at no cost to you. So, I decided to create my own. Find the Missing Angle in a Triangle Mazes Sometimes kids just need more good old fashioned practice. I feel like once you see the pattern then you can understand why the angles are either congruent or supplementary. Students can then refer back to this activity as they continue learning about this topic. Illustrative Mathematics-Street Interaction This Street Interaction activity from Illustrative Mathematics works well as an extension activity after students have learned about this topic. Plus, if you're feeling a bit competitive, students love to challenge the teacher. I like this activity because everyone gets practice and instant feedback. These clear sleeves can hold a piece of paper and basically turn anything into a whiteboard. Knockout Game This year I'm teaching an advanced 8th grade math class. In my class we actually put the painters tape on the desk. They were all jumping up and yelling, "I'm going all in!" Seriously, try this game with your class and you'll see a very engaged bunch of kids. There's an answer sheet that's included that gives students some parameters on answering the questions. That appeased my sense of not wanting to waste time. I use them a couple of times per week and this particular topic lends itself to them. As an Amazon Associate, I earn a small commission from

qualifying purchases. This Parallel Lines Cut by a Transversal Color by Number Activity was the first coloring activity that I created. In this post from Math Giraffe, she explains how you can use tracing paper to give students an opportunity to draw the angles. Also, as the teacher you can play the game and model your thinking. Home » Geometry » Lines and Angles » Parallel Lines Cut by a Transversal Foldable Mrs Newell’s Math Below are some interactive notebook ideas for a Parallel Lines unit. That experience taught me a lot about vocabulary development. Whiteboard If you don’t already have SmartPal whiteboard sleeve you might want to look into them.

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