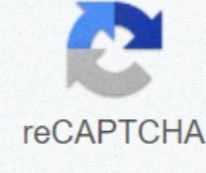




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Slope word problems worksheet

ShareTweetPinterestGoogleMail It feels like the biggest emphasis in 8th grade math is the slope and y-intercept. This topic is found on all standards and goes from basic to complex. Finally, we don't just want students to know a whole bunch of tools about linear expression. We wish they could apply what they have learned in terms of slope and y-intercept. We want them to explain situations, make predictions and solve problems. Hopefully, by the time you get from the problem your students have built the skills they need to identify and understand the slope and y-intercept in tables, equations, tables, coordinates points, and stories. In this post I will share with you 8 activities to help your students take the next step and apply what they know about the slope to solve the problem from steep blocking. I love teaching this unit about slope interception and linear equations. We start with determining the slope and unit rate, then we add y-intercept. Next, we start comparing functions, and then convert tables, graphs, and stories into linear equations. Finally, we are ready to address linear equations in the context of bivariate measurement, or in other words, can solve problems from blocking the slope. Over the course of the unit, I felt like I saw a light bulb pop in the student's head one by one. Every day I could see a few light bulbs on. It is very rewarding to see all the hard work of students, and then for them to get a place of understanding. We work on this topic from start to finish for 5 weeks and word issues are the last thing that we do. I like that we get to a point where students can explore more and figure things out instead of just learning new skills. The activities that I share in the moment will engage your students and give them great practice to solve problems from with slope and y-intercept. List of activities: Slope Intercept Word Problems Bingo Slope Intercept Word Problems Task Cards Travelling with Linear Equations Real World Example Lesson-Dominos Pizza Target Game Word Problems and/or Worksheet Coloring Page Freebie Worksheet Key Words Graphic Organizer Let's dive in You'll find a wide range of activities in this list. Some of them are perfect for introducing ideas, others are for practice with a partner, and some work great as considered. Activities can be used such as warm-up, practice, or homework. Check them out and find out what will work for you and your students. Slope Intercept Word Bingo problem I love using bingo in my class because the students get so into it. Usually, I use Jolly Ranchers as an award. It's crazy what young will make a Jolly Rancher! I have every student working out every problem on a whiteboard and show me their answers before we go through the answers. This gives me an opportunity to make sure they are working, and I can provide feedback as this special bingo game will give your students a chance to practice reading word issues, writing an equation that fits the story, and then solving for a particular situation. They will get a lot of practice because it covers 30 issues. Usually, it takes 15-20 problems before someone gets bingo. When I have about 8-10 winners then I have them going for the power outage of the entire board. This game can easily take an entire class time period. Slope Intercept Word Problems Task Cards These ramps block problems from progressive task cards from skills such as determining what slope and y-intercept represent, to making predictions from linear models. In addition, students will practice writing equations from stories or graphs. I love using these task cards on the third day of the unit. Students complete them with their board partner. I printed them with the answer on the back. If you do this way, then you can teach students to correct their own mistakes as they go. This strategy has been very successful for me and helped children get immediate feedback on how they are doing. You must emphasize that learning is more important than completion. But once they get that, they actually do a good job of working the problem, and then see if they've got it. It can be difficult to find enough story problems to practice ramps and y-interceptions. Something that you can do with task tags is use them twice. You can use stories from the cards and then have students model different situations. For example, instead of predicting what will happen after 3 hours (as written in the original issue), you can have students predict what will happen after 10 hours. If you do this the problem on the task card can go a lot further. Traveling with linear equations This travel with linear equations operating from Great Number and Beyond has been so exciting! And it's a great, realistic application of solving linear equations. The kids love to be able to imagine where they have traveled and try to earn free tickets as regular customers. It is very simple to set up and takes about 25 minutes to start to finish. One thing that I really like is that there is no right answer. Students need the opportunity to see that math is more than getting the right answer. To do this activity, the students work in groups. I gave them a few rules. For one thing, they had to travel to 5 different continents. As it turned out, I also taught a geography lesson. Also, they started in Phoenix, where we lived, and they had to end up in Phoenix. I gave them the rule that they earn 2 regular customer points per mile and that each flight had a bonus of 500 points. They have admitted to this activity, and have Great math talk is happening. It was awesome to hear a student explain to others what the equation represents and how it will help them figure out what points. Real World Examples This Real-Dominos Pizza Lesson Activity from Mathalicious is called the Domino Effect. This lesson works in 3 behaviors. In my class, we did the first two questions together. The students then worked with their partners to address the rest. The graph tools in the exercise are excellent and students can see how slope interception works in a real-life situation. Some students were reluctant to try because it was too difficult. With the kids, you have to give them a little encouragement and help them figure out something, so that they can feel the success. This activity took us about 40 minutes to complete and discuss. Target games from problems and/or tables I work with students in a math lab situation where they have two math classes a day. They are in this class because they struggle with math. I've found over the years that if I just give them a spreadsheet, they get off pretty quickly and they won't finish much. To solve this problem, one of the things that we do with spreadsheets is to do one problem at a time and after each problem we play a game. One of my favorite games to play is the target game. A few years ago I bought this ball made of suction glass and it stuck to the whiteboard perfectly. So I asked a few questions about each problem. Anyone who answers questions will be shot at the target. To keep all students engaged, I have everyone else choose one person to sponsor. They get any point who they find hits the target. It makes a lot of fun. The problems from this work great with this game because they have many parts for them. I really like the way they gather all the things we've learned in this unit. In addition, this spreadsheet (downloaded directly from the battery) has a total of 14 problems for students to solve. They will also work great as considered later this year as well. Coloring Page Freebie I use this coloring page as a review of this topic a few weeks after we've finished it. It works great as a review and gets the kids talking about solving these kinds of problems from. It doesn't take too long, and I can work with kids who still need help. The coloring part is attractive but it is also small so that it does not take a whole bunch of time. I have students working in partners as they work on this task. Download this coloring page activity for free here. For more free math, ideas, and resources to be sent right into your inbox, sign up here to join the Maze Club of the Month. Have! Sign me up for the club's free maze of months for more exclusive math freebies from Math Idea Galaxy. Key Words Organized Graphics Organization this free graphic has a large book of keywords related to slope interception. It passes through the form of steep interception $y = mx + b$ and is a go to resources. I have students creating a similar graphics organization in their interactive laptops as a reference. In addition, we practice completing a blank space of this graphic organizer as a predictor. I have them writing down everything they can remember about y or m from steep interception forms. This gives them some quick practice to help get some of these ideas to their long-term memory. Try one thing You may be looking for more activity or just something to spices things up. I always encourage people to try one thing. Just add a new tool to the proverb teaching toolbox. Once you get a hang of that activity, then it's easier to try another one. Throughout the year, you can really grow up the variety of activities in your classroom and get your students super engaged in their practice. Thanks so much for reading! Until next time. 7th, 8th, 9th, 10th, 11th, 12th, HomeschoolPage 27th, 8th, 9th, 10th, 11th, 12thPage 36th, 7th, 8th, 9th, 10th, 11th, 12th, Higher Education, Adult Education, Homeschool, StaffPage 4Kindergarten, 1st, 2nd, 3rd, 4th, 5th, HomeschoolPage 51st, 2nd, 3rd, 4th, 5th, Homeschool ShareTweetPinterestGoogleMail It feels like the biggest emphasis in 8th grade math is slope and y-intercept This topic is found on all standards and goes from basic to complex. Finally, we don't just want students to know a whole bunch of tools about linear expression. We wish they could apply what they have learned in terms of slope and y-intercept. We want them to explain situations, make predictions and solve problems. Hopefully, by the time you get from the problem your students have built the skills they need to identify and understand the slope and y-intercept in tables, equations, tables, coordinates points, and stories. 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