

Slope $y=mx + b$

Identify the slope and y-intercept. Write linear equation for each problem.		
1) Cinemark is having a summer special. If you get a membership, one-time cost is \$12.50 plus \$2.00 per movie that you watch. Write a linear equation that will show the cost of membership and each movie seen. Slope: _____ Y-Intercept : _____ Equation: _____	2) Lake Michigan is one of five Great Lakes Five of North America. In Summertime, Lake Michigan recedes about $\frac{1}{4}$ foot per hour. Lake Michigan is about 279 ft. in depth. Write a linear equation that will show the receding water for Lake Michigan. Slope: _____ Y-Intercept : _____ Equation: _____ Hint: Recedes means (negative)	3) Alexandra babysits on the weekends to get extra money. She is part of Babysitters R Us that charges a \$10 fee and \$15 per hour. Write an equation that explains how Babysitters R Us charges for babysitting services. Slope: _____ Y-Intercept : _____ Equation: _____
4) Mr. Perez gives out about 2 grades per week. Students currently have 7 grades in their gradebook. Write a linear equation indicating the number of grades students will receive in Mr. Perez's class. Slope: _____ Y-Intercept : _____ Equation: _____	5) Uber Select in Dallas, Texas charges \$7.00 initial fee and \$2.20 per mile. Write a linear equation for what Uber Select Plan charges for their service. Slope: _____ Y-Intercept : _____ Equation: _____	6) The University of Cumberlands did a study on the effect of video game play and how it affects grades in academics. The results were shocking and it is estimated that every hour of video game play <u>reduces</u> your academics score by 5 points. What if you play 2 hours a day and currently have a grade of 80? Slope: _____ Y-Intercept : _____ Equation: _____ Hint: Reduces means (negative)
7) Karate Dojo charges \$25 fee and \$50 each month for Karate classes. Write a linear equation that represents all of the charges from Karate Dojo. Slope: _____ Y-Intercept : _____ Equation: _____	8) Zombieland is a fun adventurous Theme Park that allows you to be part of the action. Zombieland charges a \$30 membership fee and \$20 per visit to the Theme Park. Write a linear equation that represents the charge for entering Zombieland. Slope: _____ Y-Intercept : _____ Equation: _____	9) Circle K sells many bags of potato chips, but the most popular bag of chips is Takis. They sell about 4 bags of Takis per hour. Today, Circle K has already sold 16 bags of Takis. Write a linear equation indicating the number of Taki bags Circle K will sell today. Slope: _____ Y-Intercept : _____ Equation: _____

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10) A barber has to pay rent for having a chair at a local barbershop store. He was asked by the owner of the barbershop that he needed to pay \$150 one-time fee and \$200 per month. Write a linear equation that indicates how much the barber will pay the barbershop owner. Slope: _____ Y-Intercept : _____ Equation: _____	11) The cost to publish a yearbook is \$20 per book plus a \$250 design fee. Write an equation that explains the cost of publishing a yearbook. Slope: _____ Y-Intercept : _____ Equation: _____	12) The school is planning a Spirit Day, where all students and staff participate. Henderson Middle School will be purchasing shirts at the cost of \$5 per shirt with a one-time fee of \$100 for the graphic design. Write a linear equation to indicate the cost of purchasing for every person at school. Slope: _____ Y-Intercept : _____ Equation: _____
13) The Red Door Escape Room is an fully immersive game where you are locked in a room and have only 60 minutes to solve cryptic games and puzzles to be able to escape. They charge \$28 per person. Write a linear equation with the cost of The Red Door Escape Room. Slope: _____ Y-Intercept : _____ Equation: _____	14) Ticketmaster charges \$95 for Ariana Grande's concert. They also charge a surplus fee for services of \$11. Write a linear equation for the cost of a ticket to see Ariana Grande's concert through Ticketmaster. Slope: _____ Y-Intercept : _____ Equation: _____	15) T-mobile is charging an activation fee of \$50 and \$65 per month. Write a linear equation for the cost of service through T-mobile. Slope: _____ Y-Intercept : _____ Equation: _____
Identify the slope and y-intercept. Determine the cost of each problem.		
16) Breakin' Beats is charging \$40 one-time service fee and \$60 a month for training you on how to dance Hip Hop. This is an hour long training each week. Write a linear equation that represents the cost of attending dance lessons. Slope: _____ Y-Intercept : _____ Equation: _____	17) Ruidoso has a campground where you can rent paddle boats. The cost of renting a paddle boat is \$10 one-time fee and \$3.00 per hour. Write a linear equation that represents the cost of renting a paddle boat. How much does it cost to rent a paddle boat for 3 hours? Slope: _____ Y-Intercept : _____ Equation: _____ Cost: _____	18) Glide Scooters has an electric scooter rental service. The cost of riding around in a scooter is \$1 activation fee and \$0.20 per mile. Write a linear equation that represents the cost of renting a scooter. What is the cost if you ride the electric scooter for 20 miles? Slope: _____ Y-Intercept : _____ Equation: _____ Cost: _____