

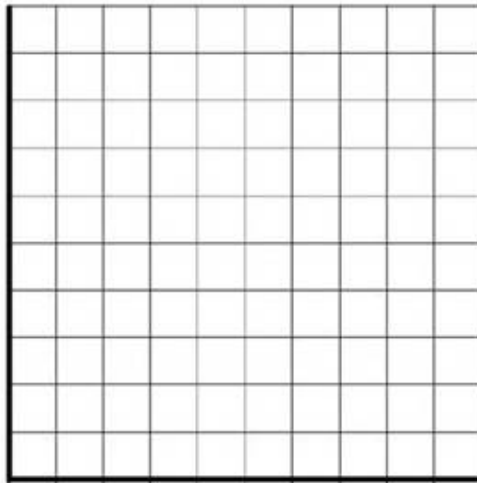
Name: _____ Period: _____ Date: _____

Linear Equation Word Problems: Performance Task
HOMEWORK

Bouncing Fun Co. rents bouncy houses for special events. The company charges a rate of \$20 per hour plus an upfront of \$30. Create a linear equation to calculate the total amount of money you would pay for the rental over x number of hours.

Bounce House Inc. also rents bouncy houses for events. However, they charge \$20 upfront plus \$25 per hour to rent the bouncy house. Create a linear equation to calculate the total amount of money you would pay for the rental over x number of hours.

Label the axis and graph the two equations:



After how many hours will the rental from Bouncy Fun Co. be the same as Bounce House Inc.? (look at the point that the graphs intersect). Write your answer in a complete sentence.