

Warm Up 1.3

(Use your notes from last time to assist you.)

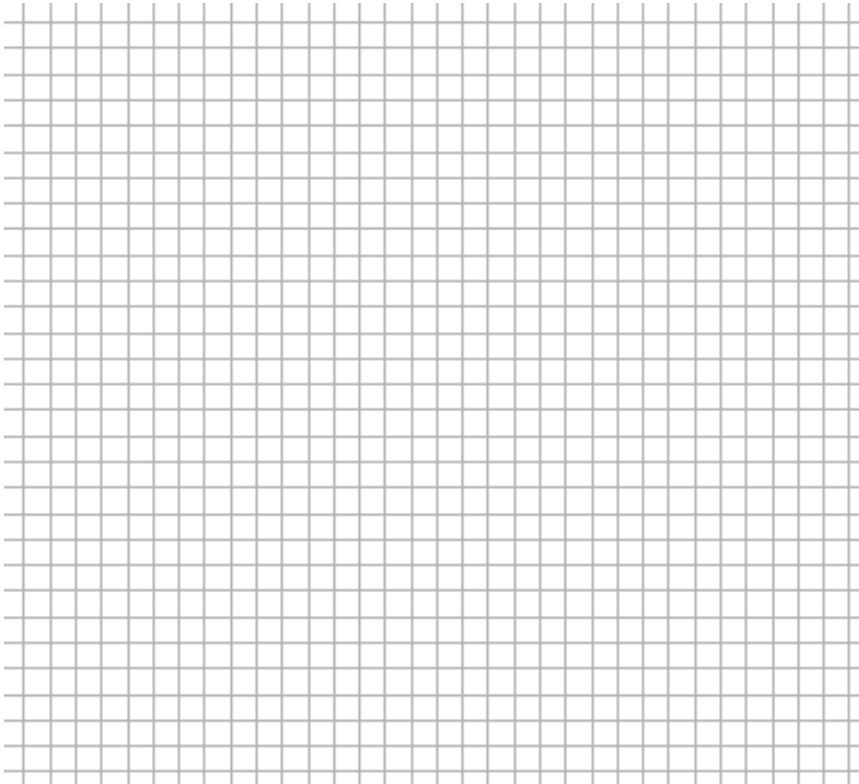
Recap:

Start-up Costs: Carlos and Clarita plan to invest much of the \$1280 they earned from their last business venture to purchase cat pens and dog runs. It will cost \$32 for each cat pen and \$80 for each dog run.

1. Write an equation that represents the start up cost needed for x cats and y dogs:
2. Write an inequality for start-up costs to show that they will use less than or equal to \$1280.

3. Francis is selling tickets to the school play. She sells student tickets, x for \$4 and adult tickets, y for \$6. This equation, $y = -\frac{2}{3}x + 200$ will find combinations of student and adult tickets that generate revenue of \$1200.

- a. Make a sketch of the graph of the equation provided.



- b. Indicate on the graph which coordinates represent when Francis has sold enough tickets to make more than \$1200 and when she has sold enough to make less than \$1200.