Recap:

*Space*: Cat pens will require 6 fts of space, while dog runs require 24 fts. Carlos and Clarita have up to 360 fts available in the storage shed for pens and runs, while still leaving enough room to move around the cages.

1. Write an equation that represents the amount of space used for ***x*** cats and ***y*** dogs:

2. Now write an inequality for space that will show that they can use less or exactly 360 ft2.

*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.

3. Write an equation that represents the start up cost needed for ***x*** cats and ***y*** dogs:

4. Write an inequality for start-up costs to show that they will use less than or equal to $1280.

Warm-Up 1.3 (Use your notes from last time to assist you.)

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