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Bricks for Books

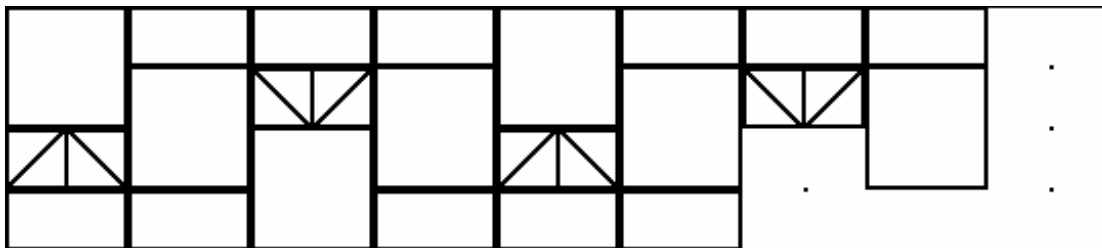
The library in your town is building a wing. The public can buy bricks that will become a part of the new walkway connecting the buildings.

Companies can buy bricks that look like this  for \$200 each.

Families can buy bricks that look like this  for \$100 each.

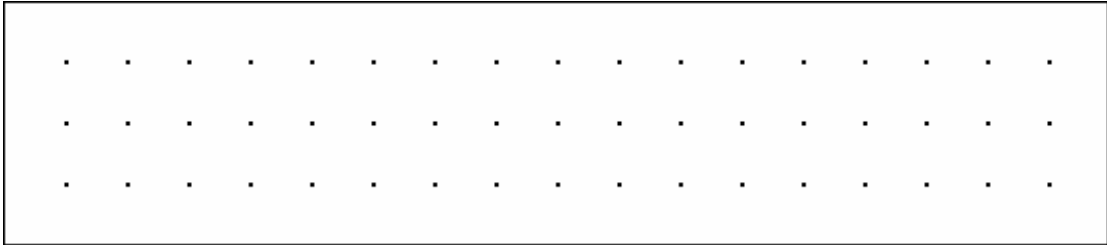
Individuals can buy bricks that look like this  for \$25 each.

1. **a.** How many “family” bricks would it take to cover the same area as one “company” brick?
b. How many “individual” bricks would it take to cover the same area as one “company” brick?
2. Here is a sketch of what the brick walkway will look like when it is completed. It is in a pattern, but some of the bricks are missing. Use either “company” bricks, “family” bricks, or “individual” bricks to complete the pattern.



3. How much money will the library collect from the brick donations found in the pattern above?

4. Can you design a different pattern of bricks to cover the same walkway space?



5. Does it make a difference in the total donation figure if you use a different pattern of bricks? Justify your answer.