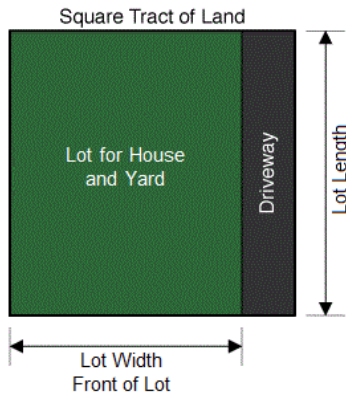
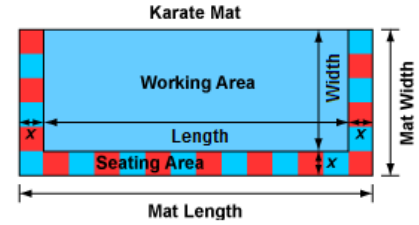


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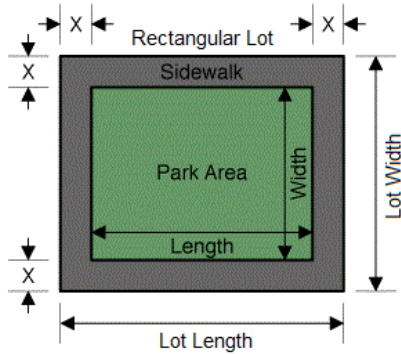


A development and construction company is developing a large suburban area of land into a housing community. They are dividing up the land into different size square tracts for different size homes.

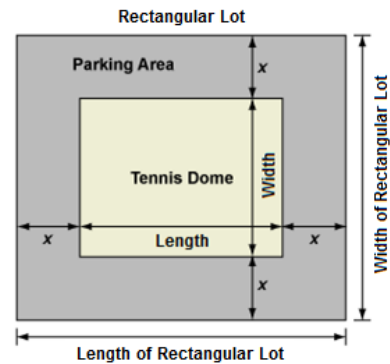
All of the homes will have a thirteen-foot driveway built along the front of the house. This driveway will make the width of the lot for the house and yard thirteen feet shorter than its length.



Mr. K is having a new karate mat installed at his school. The mat will include a rectangular work area for competitions. Mr. K also wants interlocking border mats of uniform width around three sides of the work area to serve as a seating area for observers during competition. Mr. K needs the work area to be twenty-three feet wide by forty-eight feet long.

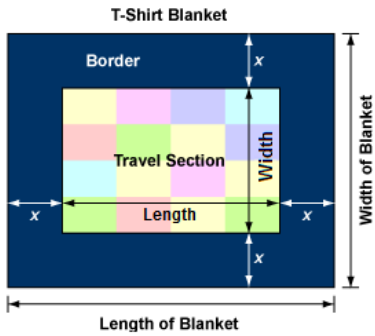


A rectangular lot of land measuring 170 yards long and 160 yards wide is to be developed into a small park surrounded by a sidewalk of uniform width.

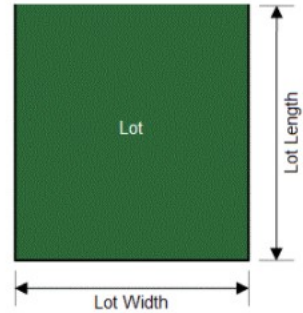


A new tennis dome housing multiple courts will be constructed on a rectangular lot of land so that the building itself measures 38 yards wide by 45 yards long. A parking area with a uniform width will surround the building.

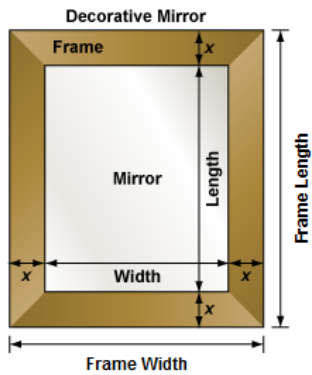
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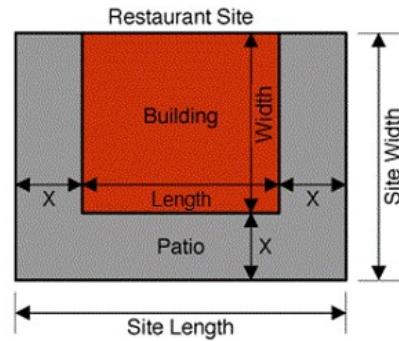
Kenya is making a blanket for her daughter. The middle of the blanket will be made from T-shirts from all their travels. She plans to frame the whole thing with a navy blue border. According to her inventory of T-shirts, she knows the travel section will need to be 14 feet long by 7 feet wide. After she completes this section, she will use its appearance to decide how wide to make the border.



We are developing a tract of land into rectangular lots for houses. We know that, for each lot, the length will be 43 feet longer than the width.



Ralph makes granite frames for decorative mirrors. He is currently working on a set of rectangular mirrors that will all have the same dimensions when framed, but the mirror themselves are of various sizes. Each finished mirror in its frame will measure 49 inches long and 48 inches wide. (See illustration above.)



The site of a new restaurant requires a rectangular site of land for the construction of a building measuring 82 feet long by 40 feet wide, and a patio of uniform width surrounding the sides of the building for outside dining.