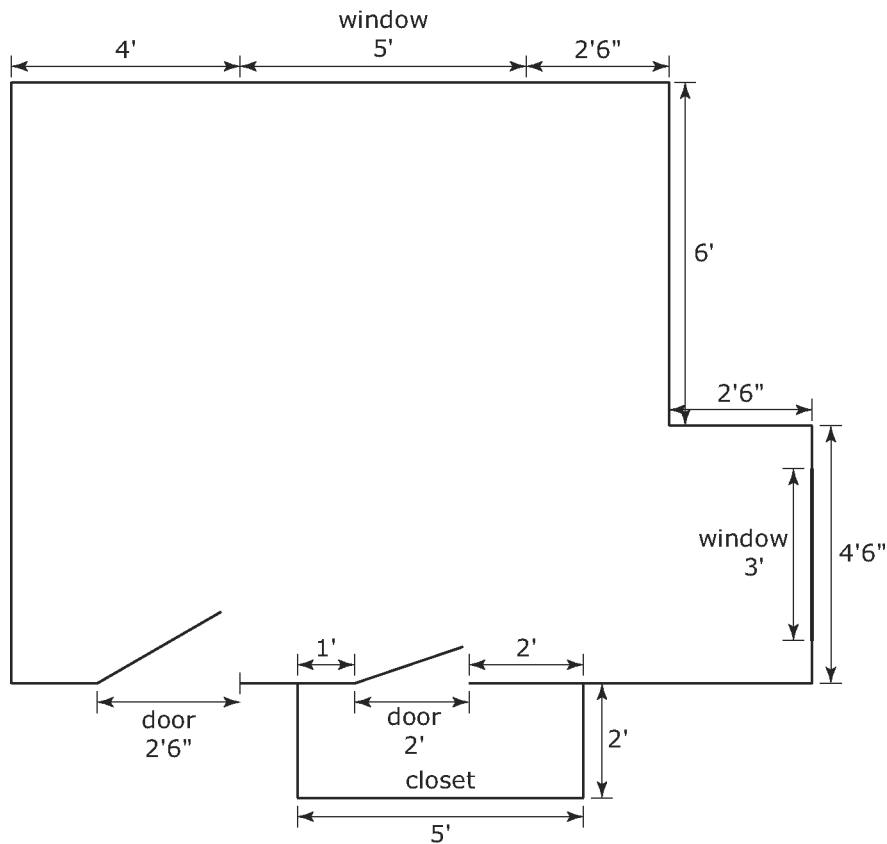


Part D: Renovating a Room

- Max and Rhea's twins recently celebrated their first birthday.
 - The family lives in a 3-bedroom semi-detached house.
 - Rhea and Max share one bedroom. The twins currently share the second bedroom. Max and Rhea plan to renovate the third bedroom into a family play room and den.
1. Rhea measured the room and made a quick sketch. Her drawing is not to scale.



Name: _____

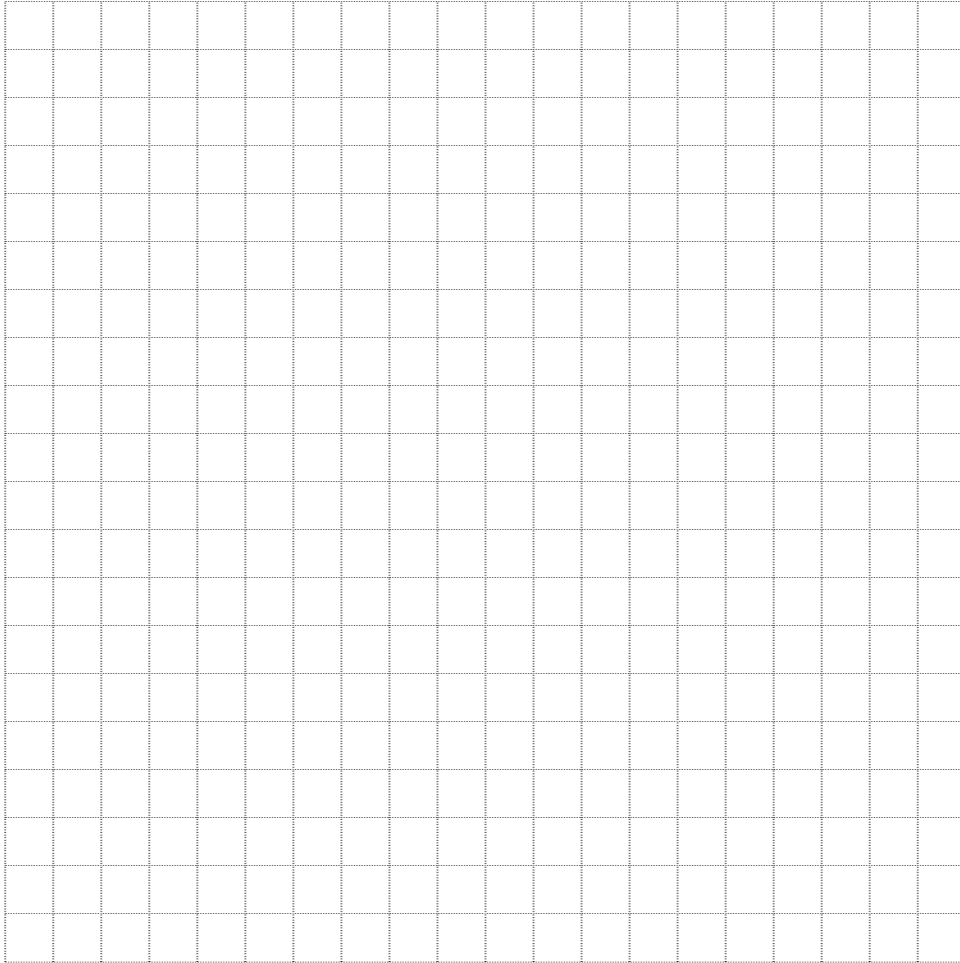
Date: _____

Master 4
(continued)

Use the grid to create a scale drawing of the bedroom.

The scale of the drawing is _____.

- Label the doors, the windows, and the closet.
- Do not record the measurements on the drawing.



Name: _____

Date: _____

Master 4
(continued)

- The walls of the room are 8 ft high.
 - The windows start 3 ft from the floor and are 4 ft high.
 - The doors are 6 ft 8 in. high.
- 2. a)** Determine the area of the floor. Include the closet floor.
- b)** Determine the perimeter of the room. Include the openings for the doors.
- c)** Determine the area of the walls and the inside of the closet. *Do not* include the area of the doors and windows. Show your answer to the closest square foot.
- d)** Determine the area of the ceiling. Include the closet ceiling.



Name: _____

Date: _____

Master 4
(continued)

- Rhea and Max plan to replace the windows, the doors and door knobs, the ceiling light fixture, the light switch, and three electrical outlets.
 - They will install a new carpet and new baseboard.
 - They will repaint the walls, the closet, and the ceiling.
 - They will add a wallpaper border halfway up each wall.
- 3.** They budgeted \$2000 for the renovation.
- a)** Research all the materials needed. Use a spreadsheet or the table to list the materials, quantities, and costs.
 - b)** Estimate and then calculate the after-tax cost of each item. Taxable purchases are subject to HST. In Ontario, the HST is 13%.

Item	Quantity	Unit Cost	After-Tax Estimate	After-Tax Cost
Total Cost				

- c)** Did you stay within your budget of \$2000? If not, what adjustments can you make?

