23 A company is planning to construct a small building and needs a scale drawing of the floor plan. Information about the building is in the box below.

The building will be 42' × 60'. The 60' walls will run east to west. Inside the building there will be three areas:

- a 42' × 42' work area with four 6' wide doors, forming two 12' wide openings in the south wall
- an 18' × 21' office with a 3' wide door in the south wall
- an 18' × 21' storeroom with no exterior doors

The office will have 3' wide doors to the work area and the storeroom. The storeroom will have a 3' wide door to the work area.

a. On the grid in your Student Answer Booklet, make a scale drawing of this floor plan. Use the scale $\frac{1}{6}$" = 3'. On the grid, 6 squares = 1 inch. Disregard wall thickness. Assume that north is toward the top of the paper.

b. On your drawing, label each room and clearly show all doors.