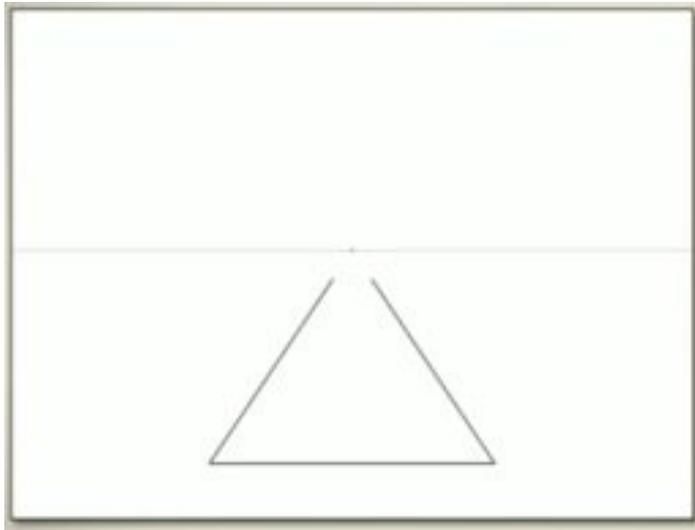
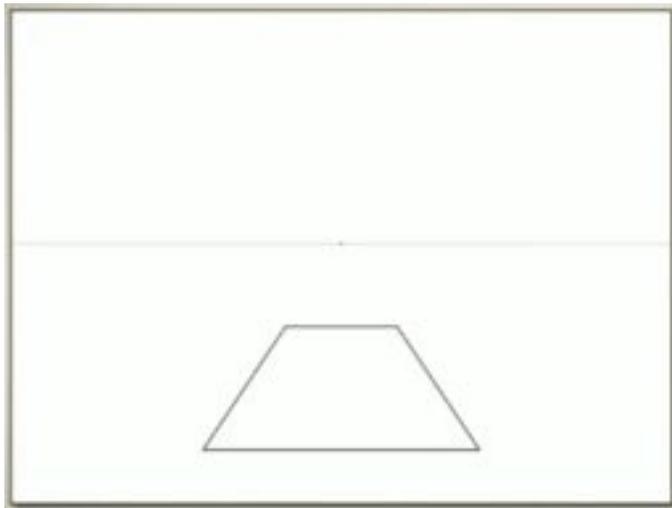


HOW TO DRAW A QUAD

1. Place an 18" x 24" piece of paper on your clipboard in landscape format (horizontal)
2. Draw a light thin horizon in the exact middle of the paper
3. Add a vanishing point on the horizon line at the 12" mark (middle)
4. Draw a 10" line 2" above and parallel to the bottom edge of the page. Center it on the paper

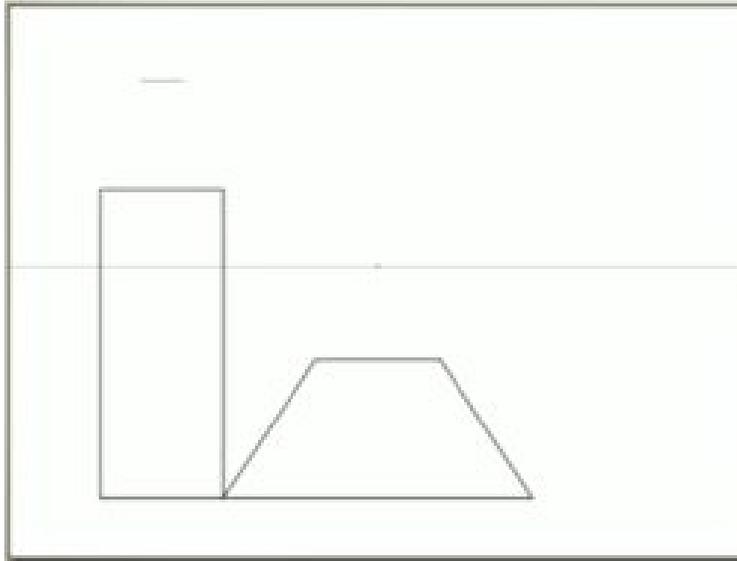


5. Vanish the two ends of the bottom 10" line back toward the central vanishing point (see above)

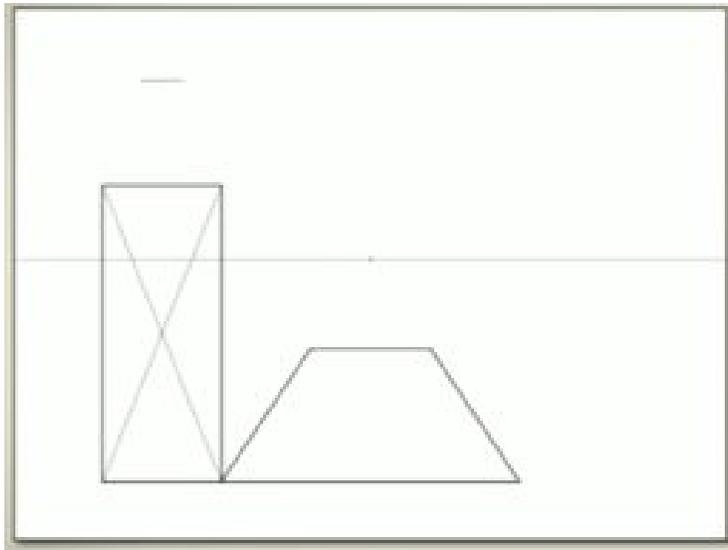


6. Draw a horizon line connecting your converging diagonals 4" above and parallel to the bottom line. You should have a parallelogram

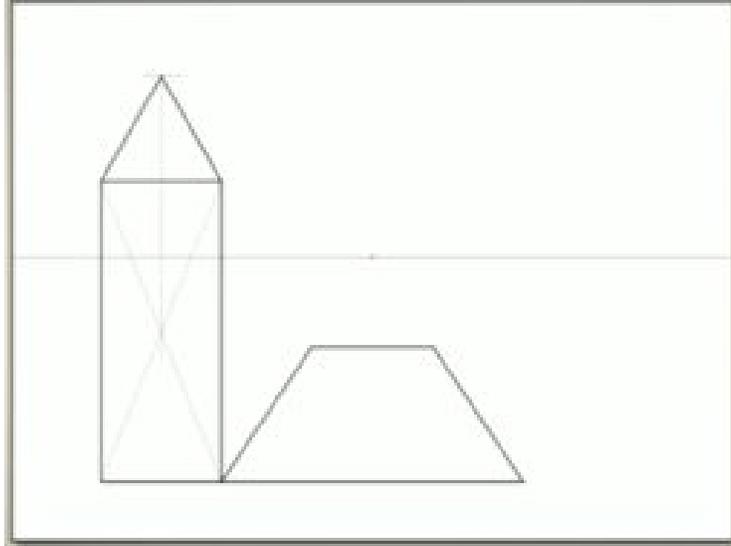
Draw the front face of the left building



7. To the left of the parallelogram draw a rectangle 10" tall and 4" wide
8. Make a small light horizontal mark to note the height of the triangular roof 4" above the rectangle (see above)



9. Find the center of the rectangle by crossing diagonals from the corners (see above)
10. Draw a vertical line from the rectangles center of to the horizontal line indicating the roof's height

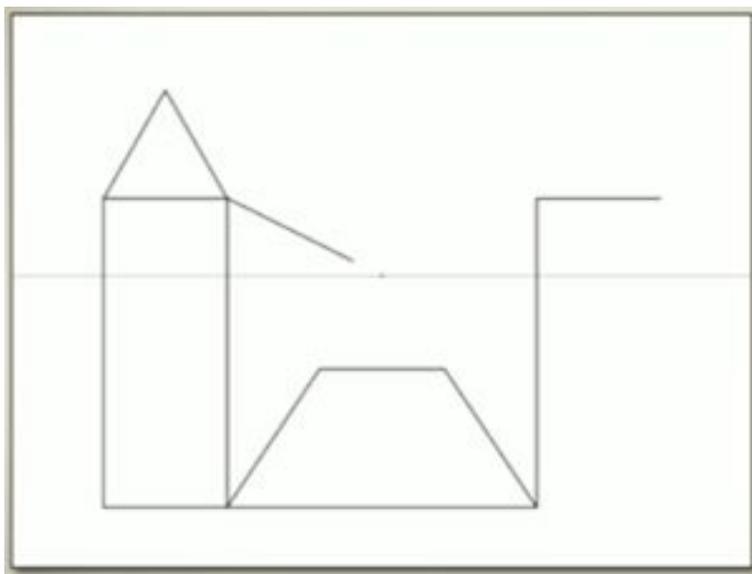


11. Extend diagonals from the upper corners of the rectangle to the center point to create the front face of the building's roof
12. Erase your construction lines

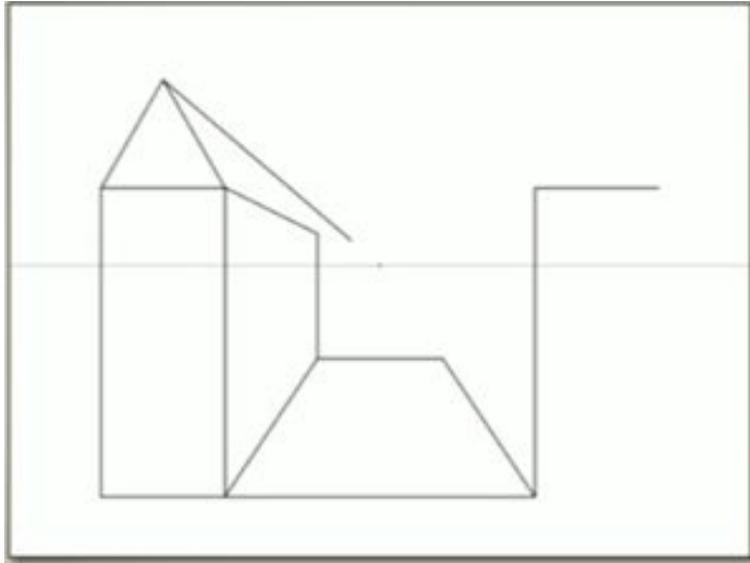
Draw the front face of the right building

1. Extend the top horizontal line of the rectangle on the left to the right
2. Draw a vertical line from the bottom right corner of the trapezoid to define the left side of the building

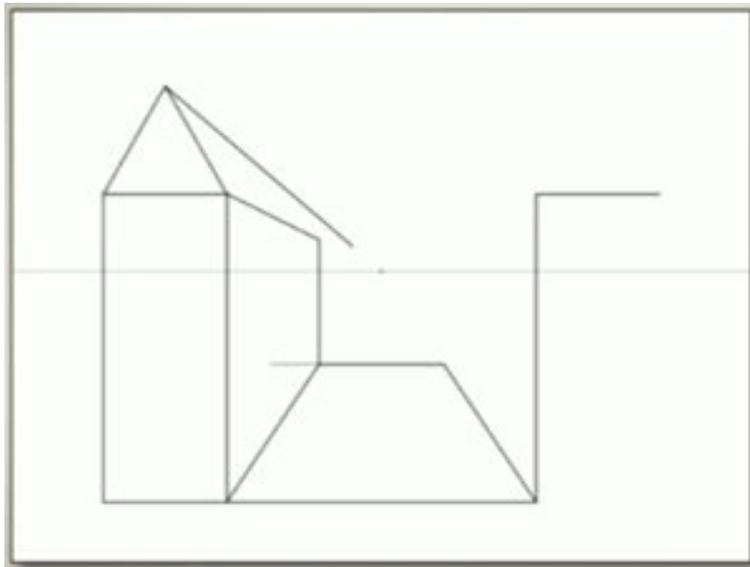
Continue the building on the left



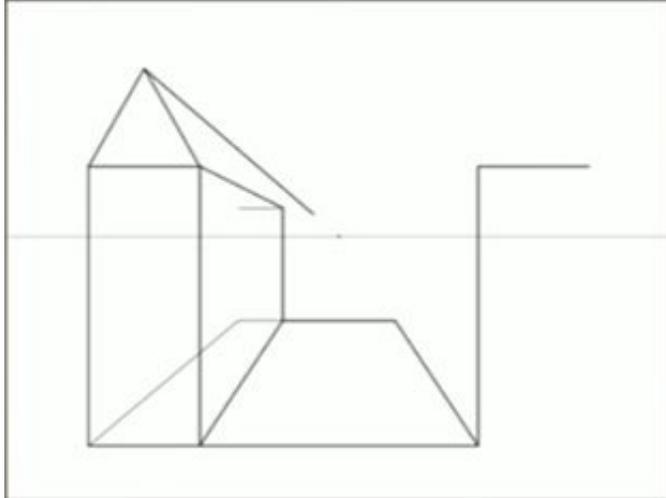
1. Draw a line from the top of the vertical representing the height of the building's base back toward the vanishing point (see above)



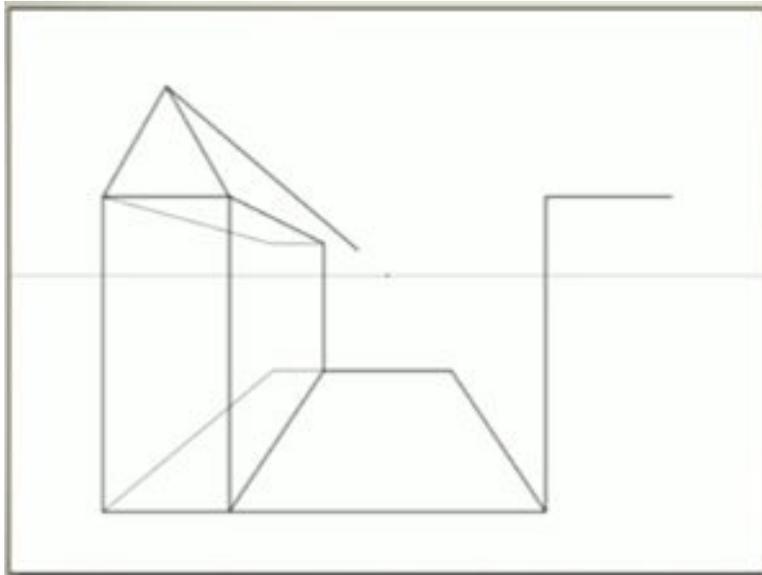
2. Extend a vertical line up from the back corner of the quad to meet the receding diagonal (see above)
3. To complete the roof, draw a line from the top of the triangle back toward the vanishing point



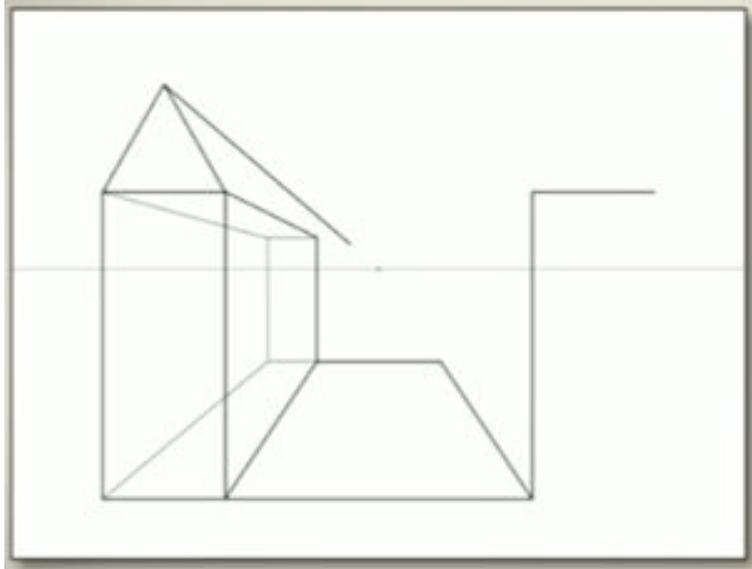
4. Draw the floor along the same horizontal as the back edge of the quad (see above)



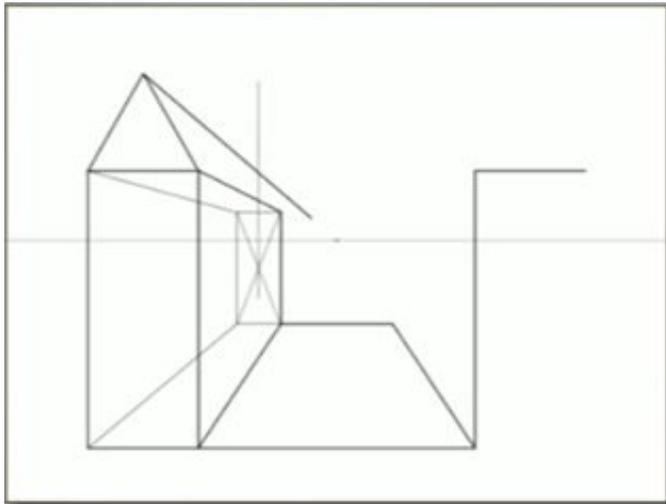
5. To finish the floor, draw a line from the building's lower left corner and recede toward the vanishing point, stopping at the back wall (see above)
6. At the back upper-right corner of the building's base draw a horizontal line into the interior of the building (see above)



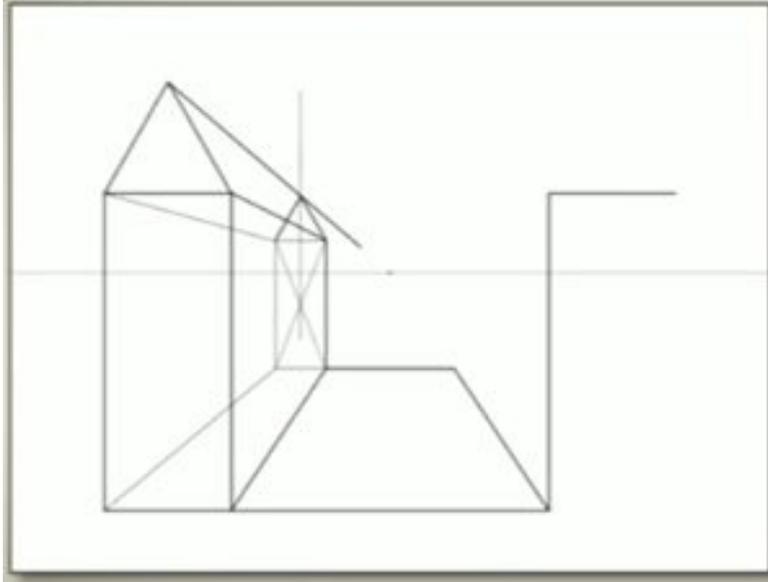
7. From the front top left corner of the building's base draw a line receding toward the vanishing point, stopping at the back wall (above)



8. Draw a vertical connecting the left corners of the floor and ceiling (above)

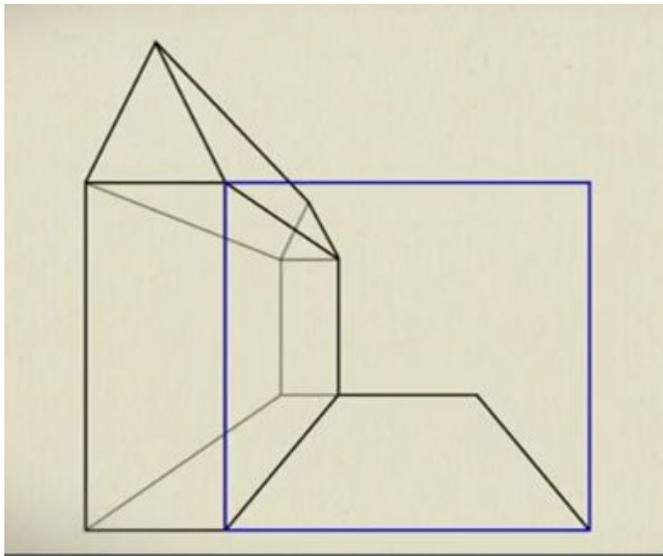


9. Find the center of the back wall using intersecting diagonals (above)
10. Carry this measure up vertically to intersect the line representing the roof's peak



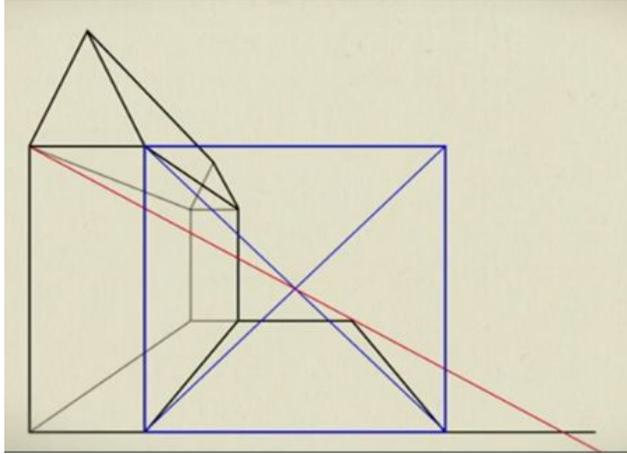
11. Last, connect the upper left and right corners of the back of the building's base to this point
12. Erase construction lines but preserve the glass building view

Finish the the second building

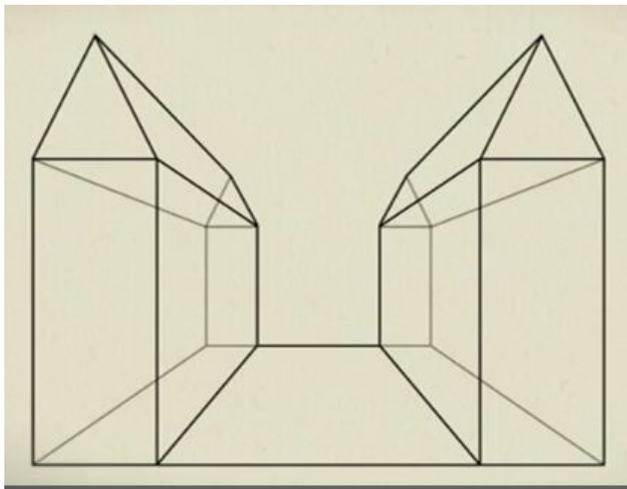


1. Based on the bottom horizontal of the quad, lightly draw a square
2. Find the center of the square by crossing diagonals
3. Draw a diagonal from the upper left corner of the first building. Pass the line through the center of the square and past the baseline

4. Draw a vertical line up from this point to create the right side of the second building



5. Complete the drawing of the second building by following the same procedures you did on the first building

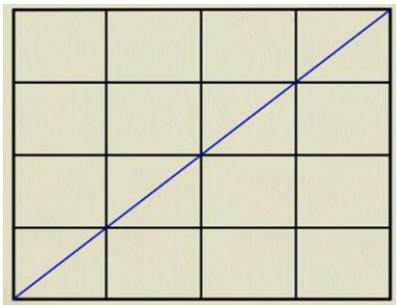
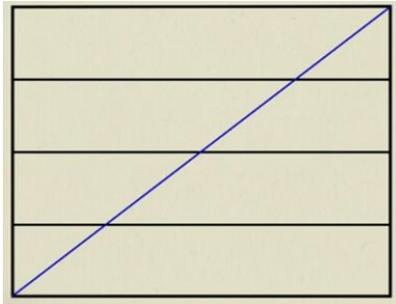
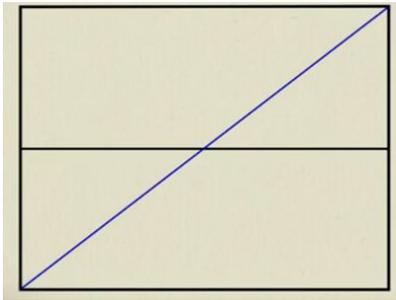


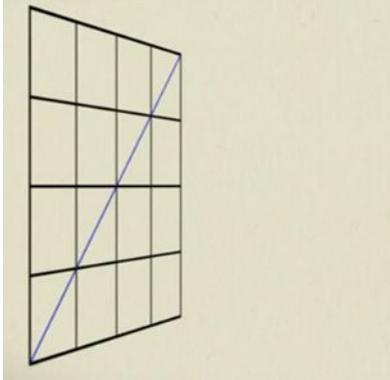
6. Here's what you should end up with (above

Adding Floors to the buildings

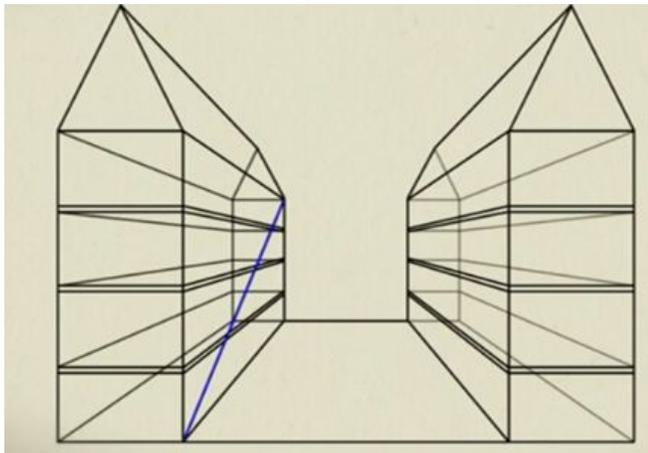
1. Find the center of the face of the first building by using diagonal lines
2. Draw a horizontal line that spans the space
3. Draw the lines of the floor receding back to the vanishing point
4. Stop at the vertical lines representing the back of the building
5. Connect the ends of the lines to complete the floor

6. Give the floor about $1/8''$ thickness
7. Add a floor below by finding the center using diagonals and repeat the process adding the same thickness
8. Add a floor above
9. Find the center and draw a horizontal
10. This time draw the thickness first
11. Vanish both horizontal lines towards the vanishing point
12. Draw the underside of the plane
13. Add identical floors to the building on the right

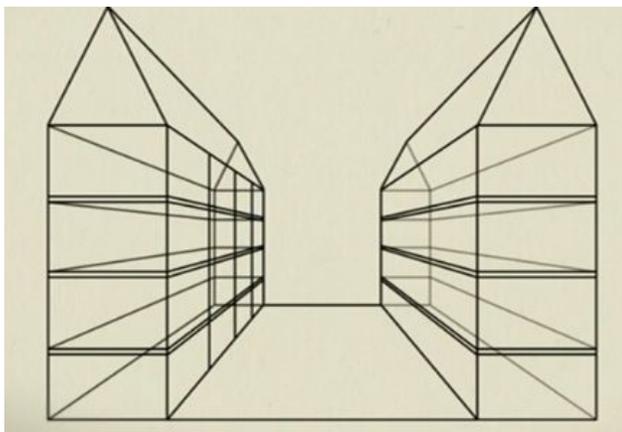




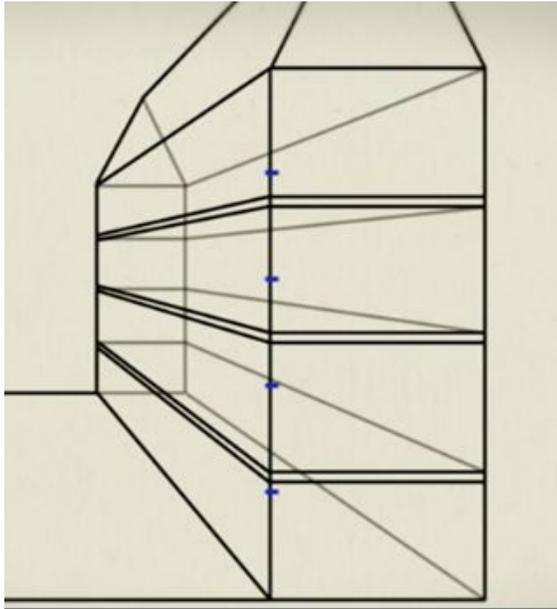
Add window 4 bays to the building on the left



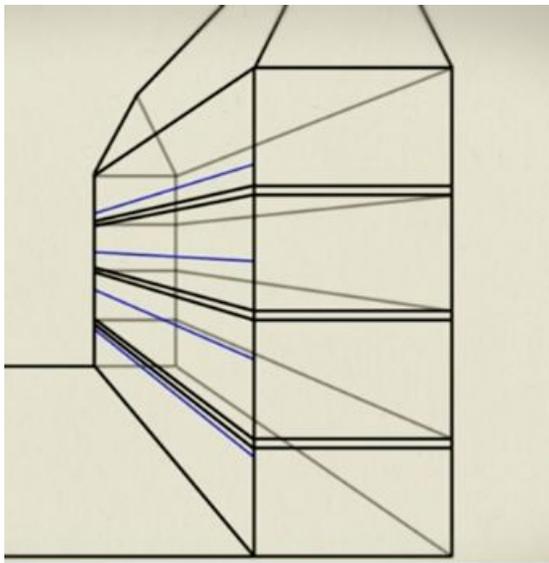
1. Draw a diagonal line from the bottom of the front vertical on the first building to the top of the back vertical
2. Where the diagonal line intersects the construction lines of the lines that define the floors, add a vertical construction line (see below)
3. Erase any construction lines



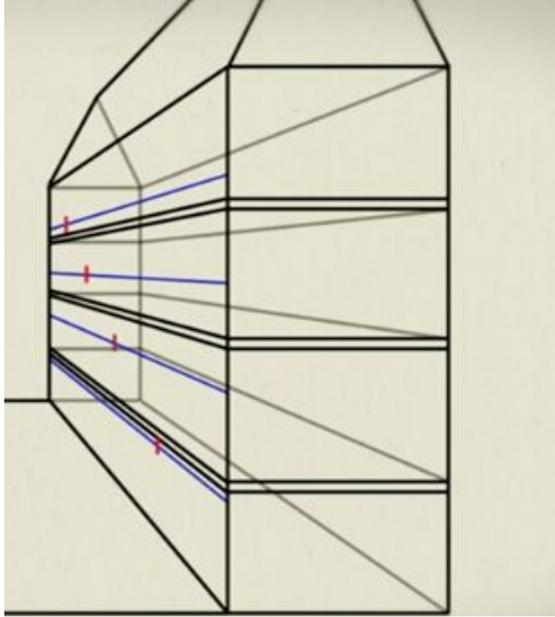
Add window 5 bays to the building on the right



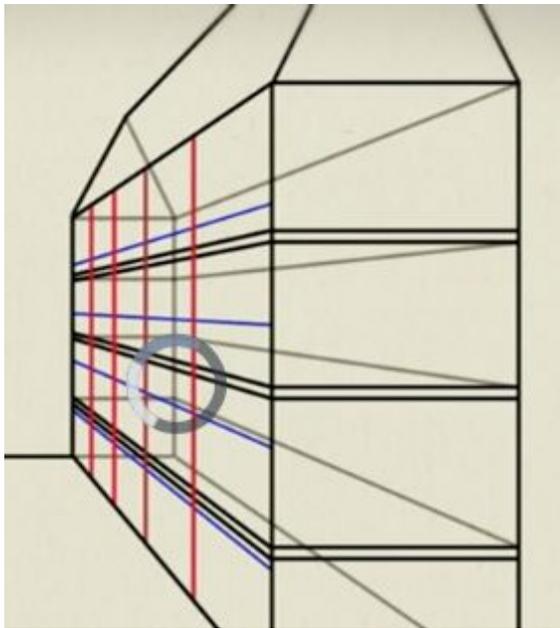
1. Divide the front vertical of the building on the right into five equal units
2. It's ten inches so make small marks at 2" intervals



3. Lightly vanish these back to the vanishing point
4. Draw a diagonal from corner to corner of the receding plane

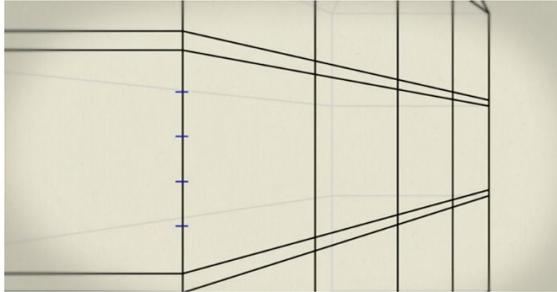


5. Make tick marks where the diagonal intersects the receding lines

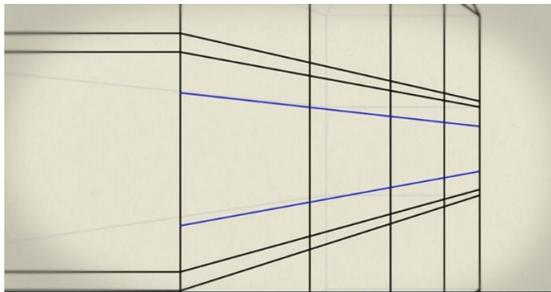


6. At the points of intersection draw verticals

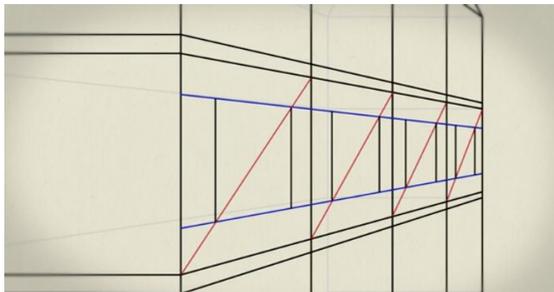
Add centered and framed window panes to the building on the left



1. Divide vertical edge of the bay into 5 equal measures
2. Vanish the divisions back to the vanishing point

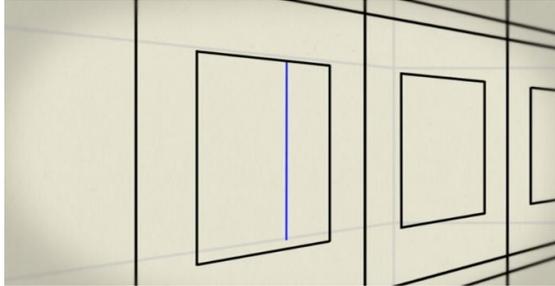


3. You've made 5 vanishing lines but we'll only use the top and bottom ones
4. Draw a diagonal from corner to corner of the receding window bay plane - not the entire side wall plane

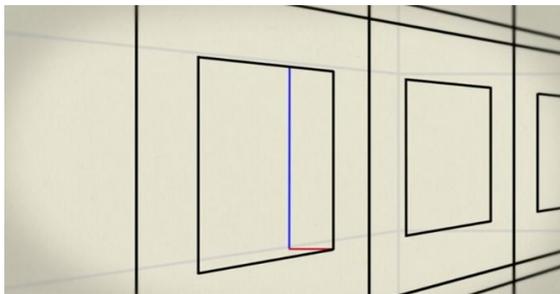


5. Make your two tick marks and add the verticals

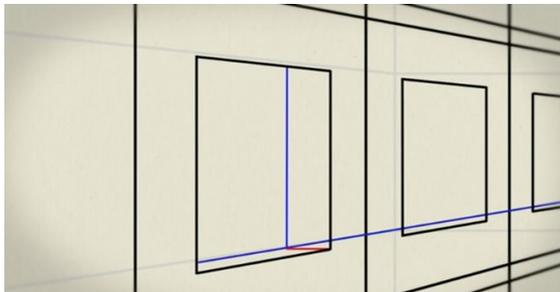
Give dimension to the windows



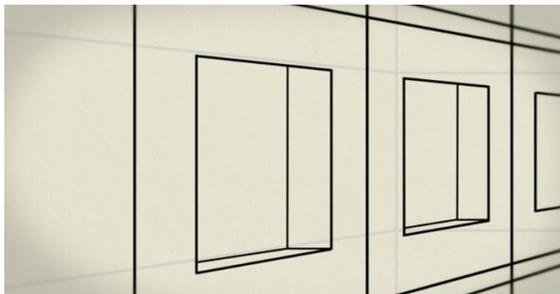
1. Draw a vertical to indicate the amount of thickness you want to give the window



2. Draw a horizontal from the window's bottom corner to intersect that vertical

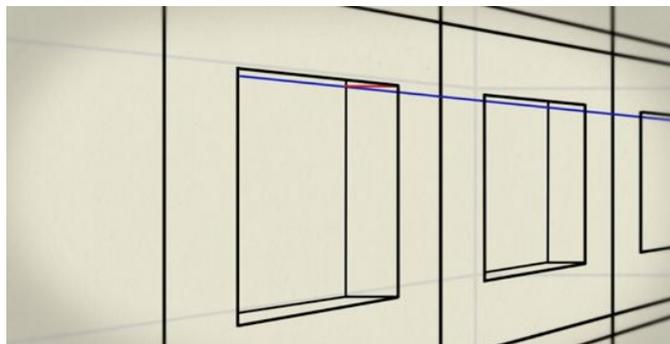
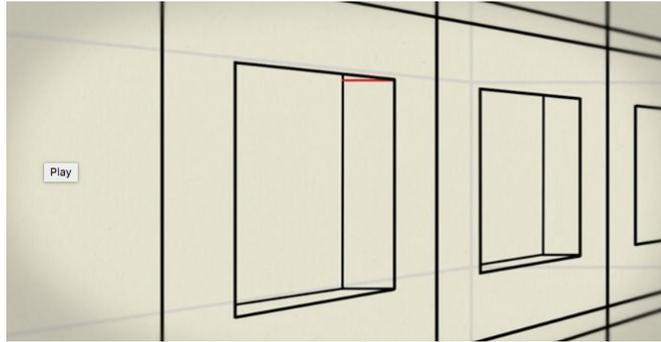


3. Line up this intersection with the vanishing point and draw a construction line line forward and backward across all four windows



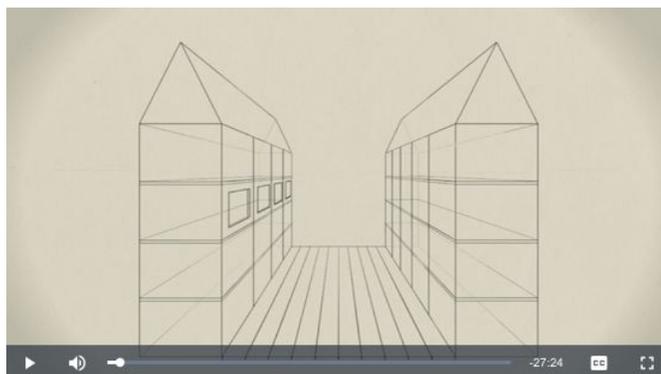
4. To get the same measure in the rest of the windows, draw a horizontal from the corner to the receding diagonal and a vertical up from the intersection

5. Draw a horizontal from the corner to the receding diagonal and a vertical up from their intersection

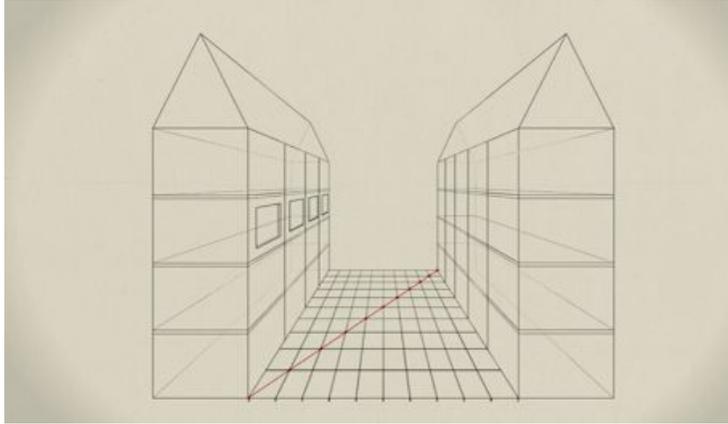


6. Draw a horizontal from the corner at the top of each window to intersect the vertical then a diagonal related to the vanishing point
7. Finish the rest of the windows at your own pace

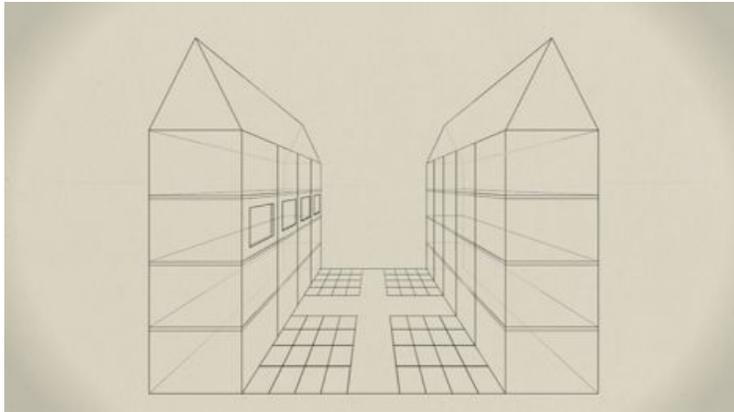
Adding a pattern to the courtyard



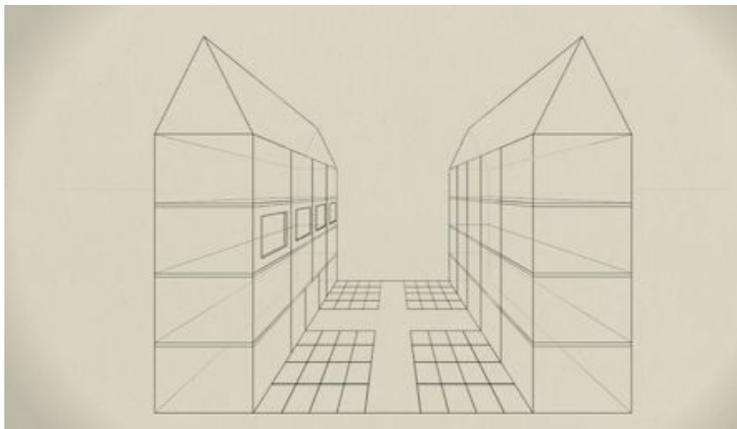
1. Divide the lower horizontal into 10" increments and draw diagonals back to the vanishing point



2. Draw a diagonal from corner to corner then draw horizontals where the diagonals intersect



3. Create a path by erasing the central vanishing line and by erasing the two center rows, five and six



4. Finally, carry the vertical lines up from where the path intersects the building and eraser the prior vertical