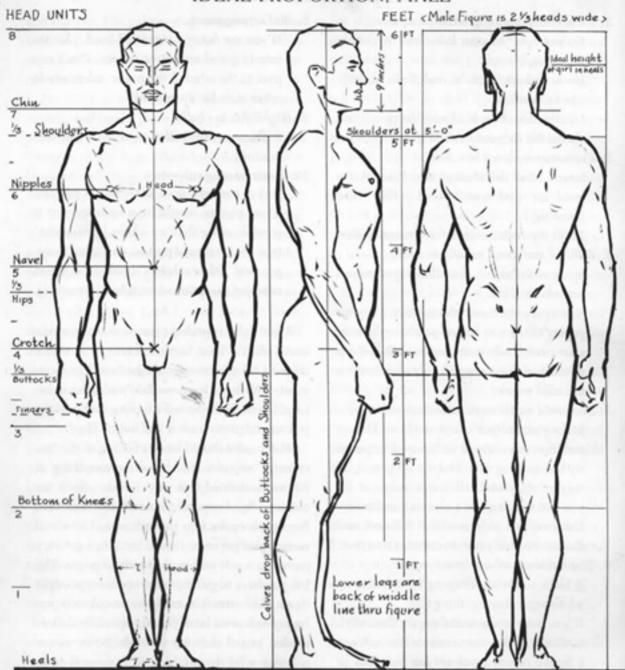


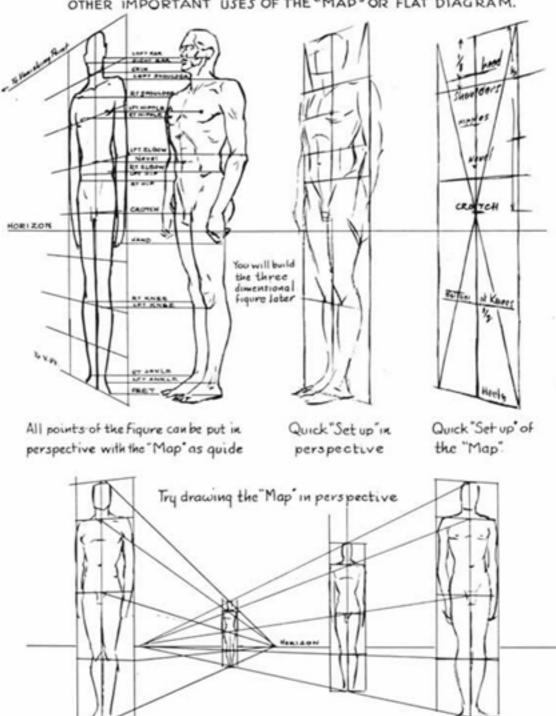
IDEAL PROPORTION, MALE



Take any desired height, or place points for top of head and heels. Divide into eighths. Two and one third of these units will be the relative width for the male figure. It is not necessary at this stage to attempt to render the anatomy correctly. But fix in your mind the divisions.

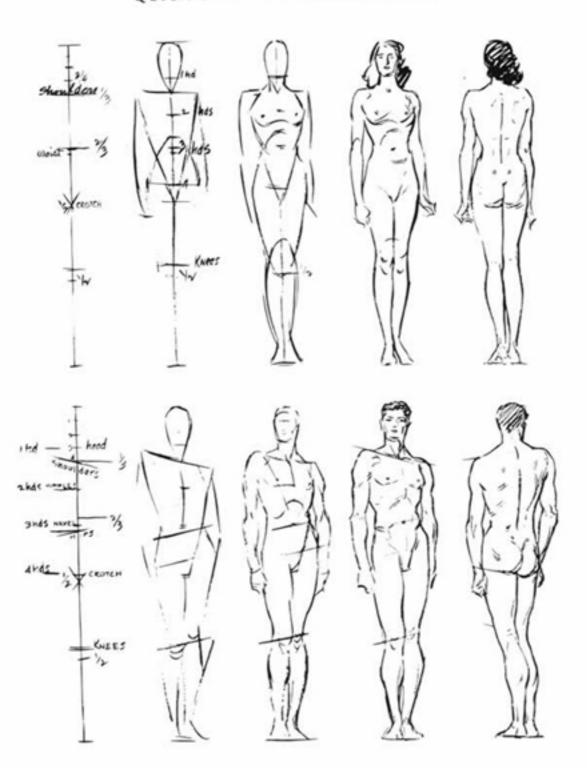
Draw the figure in the three positions: front, side, and back. Note the comparative widths at shoulders, hips, and calves. Note that the space between nipples is one head unit. The waist is a little wider than one head unit. The wrist drops just below the crotch. The elbows are about on a line with the navel. The knees are just above the lower quarter of the figure. The shoulders are one-sixth of the way down. The proportions are also given in feet so that you may accurately relate your figure to furniture and interiors.

THE FLAT DIAGRAM OTHER IMPORTANT USES OF THE "MAP" OR FLAT DIAGRAM.

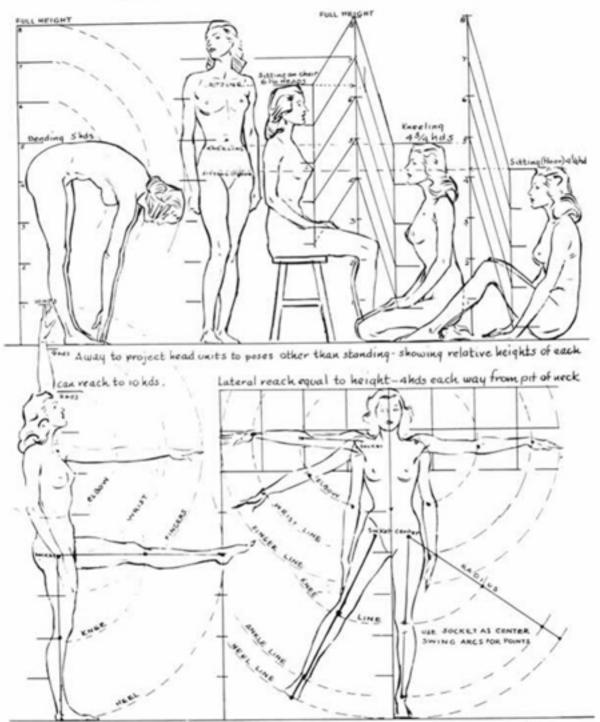


The proportions of one figure can easily be projected by perspective to others.

QUICK SET-UP OF PROPORTIONS

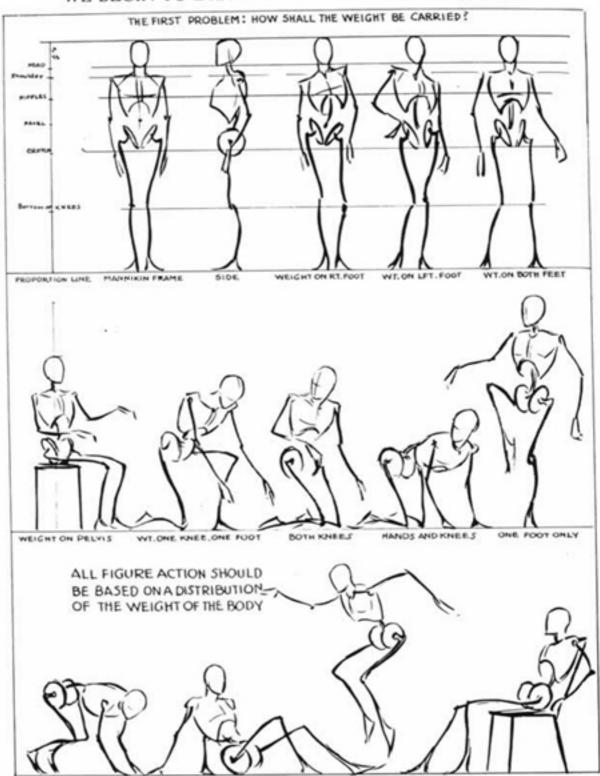


PROPORTIONS BY ARCS AND HEAD UNITS



A simple method of finding lengths of extended limbs. Later you will do this in perspective.

WE BEGIN TO DRAW: FIRST THE MANNIKIN FRAME



ON ALL FOURS

COMBINATION HANDS, PELVIS AND FEET

SUSPENDED

BACK AND PELVIS

"HANGING" FIGURES ON THE HORIZON

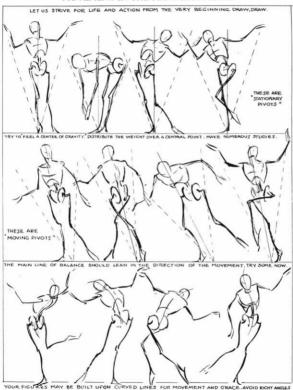


You can hang your figures on the Horizon line by making it cut through similar figures in the same place. This keeps them on the same ground plane. Note Horizon cuts menat want and the seated women of chin. The one standing woman at left is drawn relative to the men. Simple?

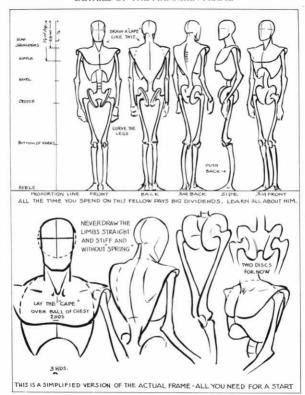


You can also "hang" heads on the Horizon: Here we have measured a proportionate line. In this case it cuts man's heads at distance down from the Horizon. I have the mouth, the womens at the eyes. : taken two heads as an optional space.

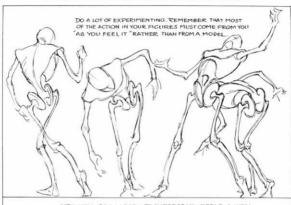
MOVEMENT IN THE MANNIKIN FRAME



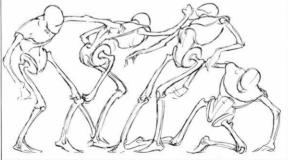
DETAILS OF THE MANNIKIN FRAME



EXPERIMENTING WITH THE MANNIKIN FRAME

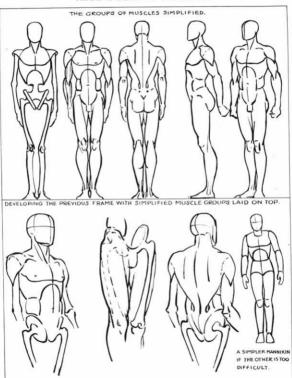


YOU WILL SOON LEARN TO EXPRESS YOURSELF. A VITAL EXPRESSION IS MORE IMPORTANT HERE THAN ACCURACY.



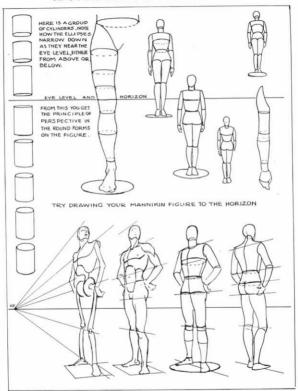
YOU CAN USE THIS TYPE OF SKELETON WHEN PLANNING ROUGHS, LAYOUTS, COMPOSITIONS,

ADDING BULK TO THE FRAME

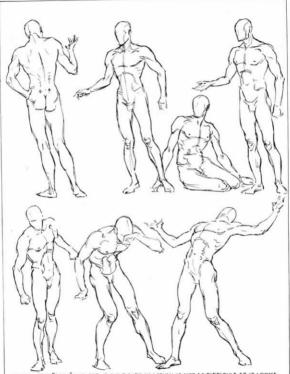


WE WILL STUDY THE "ACTUAL" BONE AND MUSCLE CONSTRUCTION LATER, GET THIS.

DING PERSPECTIVE TO THE SOLID MANNIKIN



SKETCHING THE FIGURE IN ACTION FROM IMAGINATION

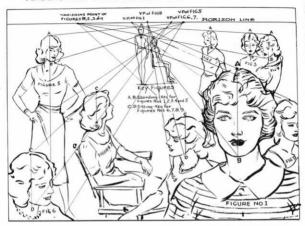


LEARNING TO FEEL AND SET UP THE FIGURE IN ACTION IS NOT AS DIFFICULT AS IT LOOKS

THE JOHN AND MARY PROBLEMS



FINDING PROPORTION AT ANY SPOT IN YOUR PICTURE





Many artists have difficulty in placing figures in their picture and properly relating them to each other, especially if the complete figure is not shown. The solution is to draw a key figure for standing or sitting poses. Either the whole figure or any part of it can then be scaled with the horizon. AB is taken as the head measurement and applied to all standing figures; CD to the sitting figures. This applies when all figures are on the same ground plane. (On page 37 there is an explanation of how to proceed when

the figures are at different levels.) You can place a point anywhere within your space and find the relative size of the figure or portion of the figure at precisely that spot. Obviously everything else should be drawn to the same horizon and scaled so that the figures are relative. For instance, draw a key horse or cow or chair or boat. The important thing is that all figures retain their size relationships, no matter how close or distant. A picture can have only one horizon, and only one station point. The horizon moves up or down with the observer. It is not possible to look over the horizon, for it is constituted by the eve level or lens level of the subject. The horizon on an open, flat plane of land or water is visible. Among hills or indoors it may not be actually visible, but your eye level determines it. If you do not understand perspective, there is a good book on the subject, Perspective Made Easy, available at most booksellers.