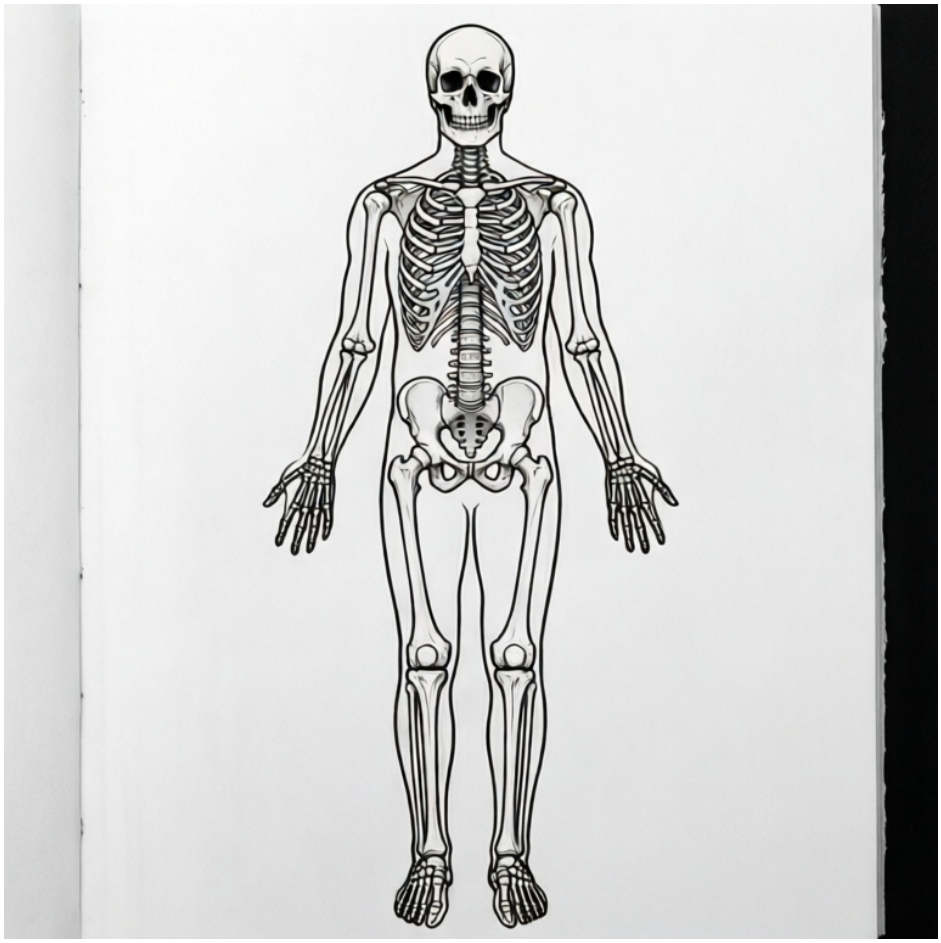
Draw a Realistic Skeleton: Bone Proportions and Joint Placement

Topic reference / ordinary illustration



Ordinary topic reference. Hypothetical dimensions in the four tasks are supplied in their own text; this illustration is not their measured answer.

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Worked example / complete source key

A learner plans a 180 mm figure with hip at 90 mm, knee at 50 mm, and ankle at 7 mm from the ground. They draw a femur of 42 mm and a tibia of 38 mm. Check whether the leg segments match the joint stations and state an adjustment.

Answer: Hip to knee is 90 minus 50 equals 40 mm. Knee to ankle is 50 minus 7 equals 43 mm. The drawn femur is 42 mm, which is 2 mm longer than the station distance; the drawn tibia is 38 mm, which is 5 mm shorter. Total drawn leg is 80 mm, while hip to ankle is 83 mm. Adjust the knee station or shorten the femur by 2 mm and lengthen the tibia by 5 mm, then re-measure.