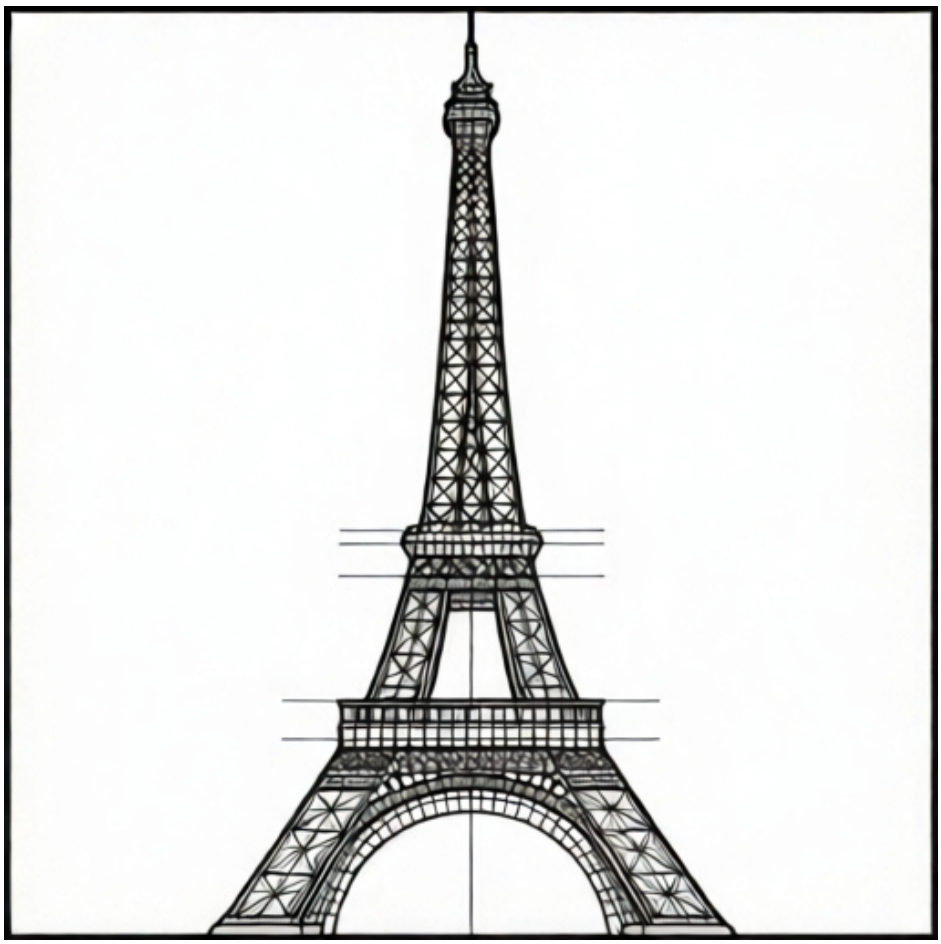
Draw the Eiffel Tower with Grid Squares and Proportion Guides

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

Draw the Eiffel Tower on a grid with H = 16 squares. Use tier tops at 0.30H, 0.60H, and 0.85H; tier widths 0.30H, 0.18H, and 0.08H; and base width W = 0.45H. Compute all values in squares and describe the outline.

Answer: H = 16. Tier tops: 0.30 times 16 = 4.8, round to 5; 0.60 times 16 = 9.6, round to 9.5; 0.85 times 16 = 13.6, round to 13.5. Tier widths: 0.30 times 16 = 4.8, round to 5; 0.18 times 16 = 2.88, round to 3; 0.08 times 16 = 1.28, round to 1.5. Base width W = 0.45 times 16 = 7.2, round to 7. Splay offset per side = (7 minus 5) divided by 2 = 1 square. Draw the envelope 7 squares wide and 16 squares tall, place guides at 5, 9.5, and 13.5 squares above ground, centre widths 5, 3, and 1.5, and curve the outer legs outward by 1 square per side.