Draw a Large Family Group: Spacing, Overlap, and Relative Heights

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

Plan a five-figure family on a grid with a baseline at the lower third. Assign heights in grid squares: adult A 8, adult B 8, teenager 7, child 5, toddler 3. Place adult A and the teenager overlapping by about one-third of the teenager's width, keep a clear gap of one square between adult B and the child, and let the toddler overlap the child's lower arm. Check the height range and the overlap count.

Answer: Tallest height is 8 squares; shortest is 3 squares; range is 5 squares. Half the tallest height is 8 divided by 2, which equals 4 squares. Since 5 is greater than 4, the range is more than half the tallest height, so adjust one height. Choosing to raise the toddler from 3 to 4 squares gives final heights 8, 8, 7, 5, 4; the range is 8 minus 4, which equals 4 squares, equal to half the tallest height and therefore acceptable. Overlap count is two pairs (adult A with teenager, toddler with child), and there is one clear gap (adult B to child), so the mix meets the plan.