Auditorium Drawing: Stage, Tiered Seating, and Sightlines

Original tasks 1, 2 / independent work

Task 1

A plan has 6 rows spaced 2 units apart. What is the seating depth from row 1 front edge to row 6 front edge?

Task 2

With riser 0.4 units, what is the platform height of row 5 if row 1 is at 0 units?

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Original tasks 3, 4 / independent work

Task 3

Row 4 platform is 1.2 units, eye height is 1.1 units, and row 3 top of head is 1.5 units. The stage lip is at 0.8 units. Row 4 is 2 row spacings from the stage lip and row 3 is 1 spacing from row 4, so row 3 lies halfway between row 4 and the stage lip. Does the row 4 sightline clear row 3's head?

Task 4

A drawing uses 8 rows with 0.5-unit risers. What is the total height difference from row 1 to row 8?