Rock Band Lineup Drawing: Stage Layout and Instrument Placement

Original tasks 1, 2, 3, 4 / complete keys

Task 1

Three-piece band: singer, guitarist, drummer. Stage width 24 units. Boxes: 5, 5, 6 units. Two gaps of 2 units. Does it fit?

Answer: Yes. Box total 16, gap total 4, combined 20, which is less than 24.

Reason: Add box widths and gaps, then compare with stage width.

Check: Re-add 5+5+6=16 and 2+2=4; 16+4=20; 20 is less than 24.

Task 2

Four-piece band with boxes 5, 5, 5, 6 and three gaps of 3 units on a 30-unit stage. Does it fit?

Answer: Yes. Box total 21, gap total 9, combined 30, which equals the stage width exactly.

Reason: The combined total must be less than or equal to stage width.

Check: 21+9=30; 30 equals 30, so it fits with zero spare units.

Task 3

A guitarist's pose box is 5 units wide and the bassist's box is 5 units wide. The gap is 1 unit. The guitar neck extends 2 units beyond its box toward the bassist. Does the neck cross into the bassist's box?

Answer: Yes, it crosses 1 unit into the bassist's box because the gap is only 1 unit and the neck extends 2 units.

Reason: Compare neck extension with gap width.

Check: 2 units extension minus 1 unit gap equals 1 unit overlap.

Task 4

Drummer seated height is 5 head units. Back wall line is 6 head units above the stage edge. The drummer's head top is at 5 units. Is the drummer below the back wall line?

Answer: Yes, the drummer is 1 head unit below the back wall line.

Reason: Compare seated height with back wall height.

Check: 6 minus 5 equals 1 unit of clearance.

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Source rubric / reflection

- [ ] Stage zones are marked and each musician is assigned to a zone.
- [ ] Pose boxes are drawn before details and follow the head-height convention.
- [ ] Instruments are placed so they do not cover faces and read clearly.
- [ ] The arithmetic check for stage width is shown or stated.
- [ ] Valid alternatives are accepted: different instrument shapes, left-right ordering, and figure heights are allowed if the checks pass.

Reflection: What did you check, what did you change, and what will you try next?