My planning sheet

Parent may read or record. Use paper pieces, the worked example and a calculator if helpful; note what support was used. No name, account, upload or score is required.

1. Scale: 30 real cm becomes ____ paper cm at 1:10. A 6 cm paper side represents ____ real cm. Explain the operation.

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2. Width: label the three gaps on a sketch. Explain what each part of 80 + 3g = 120 represents.

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3. Change one constraint: keep the desktop and mat, but replace the tray with a 30 cm-wide by 30 cm-deep tray. Write an equation for three equal gaps, solve it and check. Do three gaps of at least 10 cm still fit?

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4. Area: someone divides 7,200 cm² by 10 and reports a paper area of 720 cm². Explain the error and give the correct paper area.

Optional later example: a 100 cm-wide desktop holds the original 60 cm mat and 20 cm tray. Can all three gaps be at least 10 cm? Explain; do not assume that a positive gap meets the minimum.

These are imagined planning constraints, not safety/ergonomic clearances. Few examples cannot establish mastery or retention. Keep sketches and notes privately, or use the observation sheet.