Twenty worked life contexts

All quantities below are original labelled MODEL data unless a dated fact card is explicitly named. Work through or change an ordinary example; these are not held tests or actual local measurements.

C01 · Bookmark

MODEL source: Book edge 18 cm; strip 21 cm.

Question: Will it fit without folding?

Worked reasoning: 21 − 18 = 3 cm extra. It reaches, but exact fit needs a change. A real book needs its own reading.

C02 · Garden label

MODEL source: Label slot 8 cm; proposed tag 10 cm.

Question: What could fit?

Worked reasoning: 10 − 8 = 2 cm too long; a 7 cm tag leaves 1 cm. No actual garden or plant claim.

C03 · Art fringe

MODEL source: Three supplied border sections 120 cm,135 cm and 80 cm.

Question: How much border is needed?

Worked reasoning: 120 + 135 + 80 = 335 cm. About 100 + 100 + 100 = 300 cm checks scale, not the exact answer.

C04 · Game trail

MODEL source: Two paper path pieces 46 cm and 38 cm.

Question: How long together?

Worked reasoning: 46 + 38 = 84 cm, near 50 + 40 = 90 cm. This is a model tabletop path, not a safe real walking route.

C05 · Book display

MODEL source: Gap 30 cm; two signs 14 cm each.

Question: Is there room for a 2 cm gap between?

Worked reasoning: 14 + 14 + 2 = 30 cm, exactly the supplied gap. A real display needs measurement and suitable tolerance.

C06 · Music programme board

MODEL source: Paper panels 125 cm and 176 cm.

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Question: Would 300 cm cover both?

Worked reasoning: 125 + 176 = 301 cm, so 300 cm is 1 cm short. Rough 300 is not an exact fitting decision; no instrument/cable handling.

C07 · Packing box

MODEL source: Empty box 65 g; contents 180 g.

Question: What is the total mass?

Worked reasoning: 65 + 180 = 245 g. Omitting the box gives 180 g contents only, not a complete package or a service guarantee.

C08 · Craft tray

MODEL source: Tray 75 g; tray plus paper 325 g.

Question: What is the paper mass?

Worked reasoning: 325 − 75 = 250 g;75 + 250 = 325 checks it. All readings supplied, not weighed by the learner.

C09 · Toy storage

MODEL source: Two safe model blocks 135 g and 170 g.

Question: Which is heavier?

Worked reasoning: 170 g is 35 g more than 135 g. We cannot decide by colour or drawn size.

C10 · Science container

MODEL source: 250 mL present; target 400 mL.

Question: How much more?

Worked reasoning: 400 − 250 = 150 mL;250 + 150 = 400. Real kit and capacity need adult review; no tasting.

C11 · Watering proposal

MODEL source: Two fictional small amounts 175 mL and 225 mL.

Question: What is the combined amount?

Worked reasoning: 175 + 225 = 400 mL. This is arithmetic, not advice about a plant's actual water needs.

C12 · Art-rinse container

MODEL source: Capacity 450 mL; target 500 mL.

Question: Would it hold the whole target?

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Worked reasoning: No:500 − 450 = 50 mL beyond capacity. A larger labelled container or smaller target is needed; no actual paint/chemical activity.

C13 · Library labels

MODEL source: Three known 20-label groups and 9 loose labels.

Question: How many, and what could we estimate?

Worked reasoning: 60 + 9 = 69 labels. About 70 or 60–80 can be useful with a stated benchmark; neither is an observed library count.

C14 · Market sign plan

MODEL source: Fictional batches 246 and 128 signs; supply 400.

Question: Would there be enough?

Worked reasoning: 246 + 128 = 374;400 − 374 = 26 spare. Rough 250 + 130 about 380 supports the decision but exact calculation establishes 26.

C15 · Town display

MODEL source: Fictional panels 156 cm and 187 cm; stock 350 cm.

Question: Enough or short?

Worked reasoning: 156 + 187 = 343 cm;7 cm spare. No actual local council display measurements are asserted.

C16 · Home drawer

MODEL source: Supplied drawer width 27 cm; organizer 29 cm.

Question: Which measurement matters?

Worked reasoning: Width in cm; the organiser is 2 cm too wide in this model. Another attribute, such as height, may also need checking in a real drawer.

C17 · Museum-sized paper model

MODEL source: Fact F04 reports short-beaked echidna size range 40–55 cm. Proposed paper line 45 cm.

Question: Is the line inside that reported range?

Worked reasoning: Yes,45 is between 40 and 55. It is an original model length, not a typical or measured animal; do not approach or handle wildlife.

C18 · Weather display

MODEL source: Fact F05 says rainfall is recorded as a depth in mm. A fictional display says 12 mm.

Question: Does that describe 12 mL in a jug?

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Worked reasoning: No:12 mm is a depth, not 12 mL capacity. It is not a current forecast or local observation. Use the adult-reviewed source/date for real data.

C19 · Repair bench paper job

MODEL source: Known paper length 132 cm; target 280 cm.

Question: What extra length is needed?

Worked reasoning: 280 − 132 = 148 cm;132 + 148 = 280. No tool, machine or physical repair is required.

C20 · Shared materials proposal

MODEL source: Fictional groups 238 and 156 pieces; tray has 410 places.

Question: Will everything fit?

Worked reasoning: 238 + 156 = 394;410 − 394 = 16 places spare. Estimate around 400 checks scale, and actual tray shape would still need review.

Dated fact cards and local replacements · Empty own card

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