Check E · first response

This is a fictional paper planning problem. No real purchase is needed.

A display must contain 50 whole symbols in the exact ratio 3 stars: 2 circles. Twenty circles are already available without cost. Only the stars must be bought.

Supplier A sells whole packs of 10 stars for $4 per pack. Supplier B sells whole packs of 6 stars for $2.10 per pack. Packs cannot be split. Every star is usable. At this first stage there are no order fees. The budget for stars is $11. There is no other cost.

The display needs its exact star count. Spare stars may be kept, but the purchase must contain at least that many. Choose a sufficient order within the budget if one exists. Treat every stated price as part of this fictional model.

Your task

1. Show how the ratio divides the 50 symbols. Find the star count and circle count. State stars as a fraction of all symbols. Use a diagram, table or equations and label what each number counts.

2. Calculate each supplier's price per star. Find the whole packs, total cost and spare stars in the cheapest sufficient order from each supplier. Recommend an order under the initial budget, or explain why no order works. State one assumption your decision uses.

Working may be on another sheet. Keep the first response and the review separately.

Complete notices · 1 of 3

Complete portable notices

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