Asado Drawing: Grill, Skewers, and Ember Shading

Original tasks 1, 2, 3 / complete keys

Task 1

Draw a grill firebox 14 cm wide and 9 cm tall with grate bars spaced 2 cm apart. How many full gaps fit across the width if the first bar starts 1 cm from the left edge?

Answer: Six full gaps fit across the width.

Reason: Starting 1 cm from the left leaves 13 cm of usable width. Dividing 13 cm by 2 cm gives 6 full gaps with 1 cm remaining.

Check: Measure the usable width and count the 2 cm gaps with a ruler.

Task 2

Place four skewers across a grate 16 cm wide with equal spacing between skewer centers. What is the spacing if the first and last skewers are 2 cm from the edges?

Answer: The spacing between skewer centers is 4 cm.

Reason: Usable width is 16 minus 2 minus 2 equals 12 cm. Four skewers create three equal intervals, so 12 divided by 3 equals 4 cm.

Check: Mark the first and last skewer 2 cm from each edge, then divide the middle distance into three equal parts.

Task 3

You shade embers with pale ash, warm coal, and hot core. If you place 8 warm coal patches and 3 hot cores, and each hot core sits inside a warm coal patch, how many warm coal patches remain without a hot core?

Answer: Five warm coal patches remain without a hot core.

Reason: Subtract the 3 hot cores from the 8 warm coal patches: 8 minus 3 equals 5.

Check: Count the warm coal patches and subtract the number of hot cores placed inside them.

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Original tasks 4 / complete keys

Task 4

A skewer holds 5 food chunks. You draw 3 skewers with 5 chunks each and 2 skewers with 4 chunks each. How many chunks are drawn in total?

Answer: Twenty-three chunks are drawn in total.

Reason: Three skewers times 5 chunks equals 15. Two skewers times 4 chunks equals 8. Adding 15 and 8 gives 23.

Check: Count chunks on each skewer and add the totals, or multiply and sum as shown.

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Source rubric / reflection

- [ ] Grill structure is clear and level, with firebox, grate, legs, and handle readable.
- [ ] Grate bars are evenly spaced and skewers rest on or cross them believably.
- [ ] Skewer placement is balanced, with varied angles and consistent chunk sizes per skewer.
- [ ] Ember shading uses three distinct values with sparse darkest marks.
- [ ] Scene is grounded with a cast shadow and remains uncluttered.

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