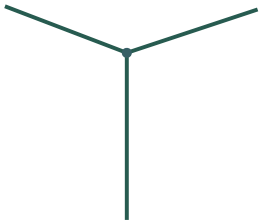
Cube Drawing Practice

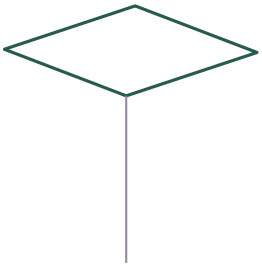
Answer | Task 1 of 4 | LETTER

Original prompt

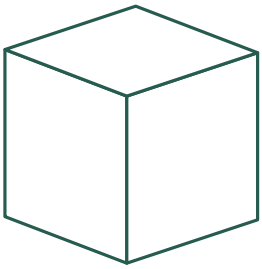
Task 1: Draw a cube seen from slightly above with light from the upper left. Use the four-step construction and shade the three visible faces.



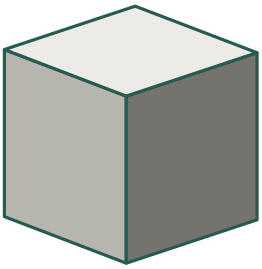
Mark three meeting edges



Close the top



Close the sides



Shade three values

Answer

A cube with one front corner, three visible faces, parallel opposite edges, and values top lightest, left mid, right darkest.

Reasoning

The construction fixes the front corner and three meeting edges first, then completes top and side faces; shading follows the single light direction.

Check

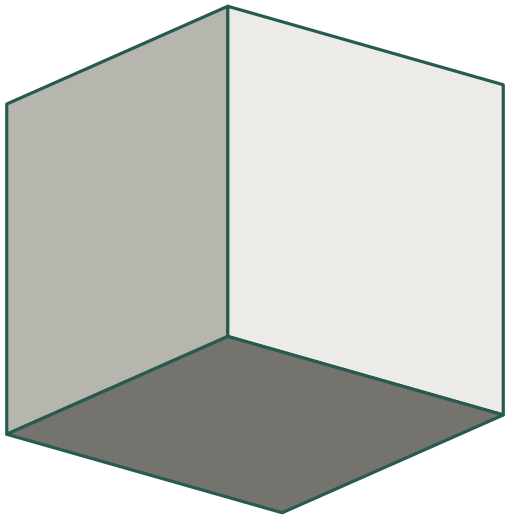
Check that three faces meet at one corner, opposite edges are parallel, and the three face values are distinct and correctly ordered.

Cube Drawing Practice

Original prompt

Task 2: Draw a cube seen from slightly below with light from the upper right. From the nearest bottom corner make two depth edges slope down and draw the upright upwards. Shade the three visible faces.

Light above right



Front light, left middle, underside dark

Answer

The bottom and two side faces are visible. Near the lower corner, the depth edges slope down and the upright climbs. For the light position shown in this answer, the front face is lightest, the left face has a middle value, and the underside is darkest.

Reasoning

A lower viewer sees the underside. The light is still above the cube and lights the top and part of the sides. In this example it shines more directly on the front face than on the left one. The underside is turned away from it.

Check

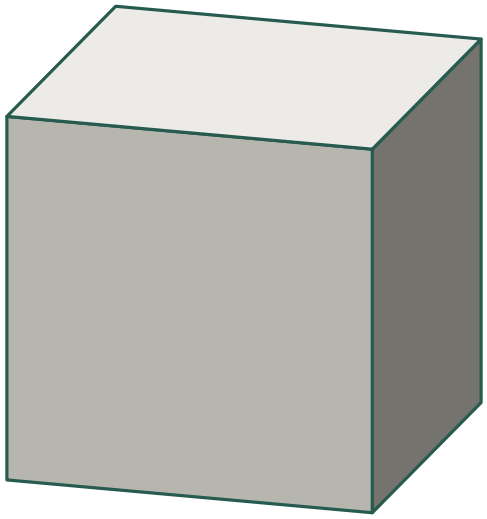
Check three visible faces and corresponding parallel edges. Keep the underside darkest for this above-cube light position. Compare the two side values with the light direction in the answer.

Cube Drawing Practice

Original prompt

Task 3: Draw a cube with one face turned toward you and light from the upper left. Show the front face, top face, and right side face, then shade them.

Light above left



Top light, front middle, right dark

Answer

A cube with a front face, top face, and right side face visible, parallel opposite edges, and values top lightest, front mid, right darkest.

Reasoning

Turn the front nearly square to the viewer in this parallel view while keeping enough of a turn to see the right side. The upper-left light falls most directly on the top and least on the visible right side.

Check

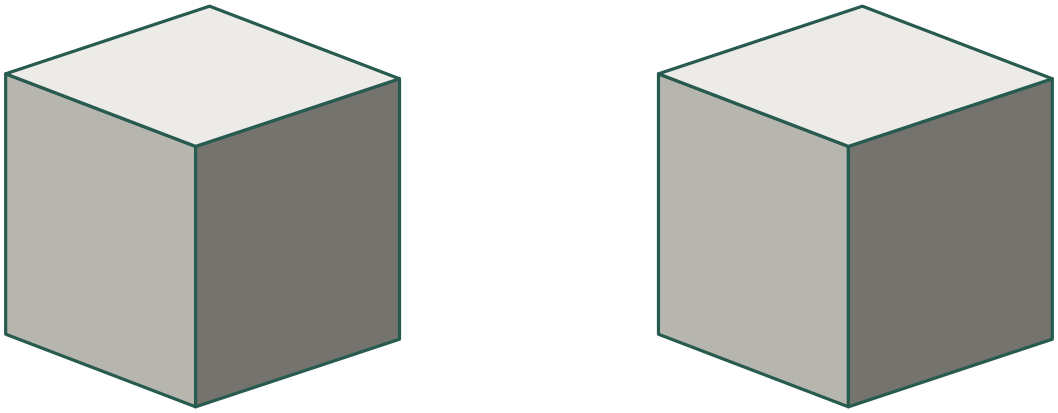
Check that the front face looks nearly square and that all three visible faces join at the nearest top corner. Corresponding edges stay parallel, and the top is brightest in this example.

Cube Drawing Practice

Original prompt

Task 4: Draw two cubes side by side, both seen from slightly above with light from the upper left. Use the same construction and shading for each, and keep their edges parallel.

Light above left



Same orientation and same three values

Answer

Two cubes with matching orientation, each showing three visible faces, parallel opposite edges within and between cubes, and the same value order top lightest, left mid, right darkest.

Reasoning

Repeating the construction for a second cube tests consistency; keeping edges parallel between cubes preserves a single viewing direction and light source.

Check

Check that each cube has three visible faces meeting at one corner, corresponding edges are parallel across both cubes, and the value order is the same on each.