Plan-View Dog Run Drawing: Fence, Gate, and Surface Zones

Original tasks 1, 2 / complete keys

Task 1

On a grid where one square equals one metre, draw a fenced rectangle 5 squares long and 3 squares wide. Put a 1-square gate on a short side, show the swing arc, and label one surface zone. Write the overall dimensions.

Answer: A solid 5 by 3 rectangle with a 1 m gap on a short side, a quarter-circle arc, one labeled zone inside, and dimensions 5 m and 3 m outside the fence.

Reason: The rectangle uses the grid count directly. The gate gap is one square wide and the arc shows swing direction. One zone label satisfies the task, and dimensions match the counted squares.

Check: Recount squares on each side, confirm the fence is closed except at the gate, confirm the arc does not cross the fence, and check that both dimensions use metres.

Task 2

Draw a fenced rectangle 8 squares long and 4 squares wide on a one-square-equals-one-metre grid. Place a 2-square gate on a long side near one end but keep the arc clear of the corner. Divide the interior into two equal zones and label them.

Answer: An 8 by 4 rectangle with a 2 m gate gap, a quarter-circle arc that stays clear of the corner, a divider at the 4-square mark creating two 4 by 4 zones, and labels for each zone.

Reason: The gate is placed away from the corner so the arc fits. The divider at half the length gives two equal zones, and the dimensions follow the grid count.

Check: Confirm the gate is 2 squares wide, the arc clears the corner, each zone is 4 by 4 squares, and the overall dimensions are 8 m and 4 m.

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Original tasks 3, 4 / complete keys

Task 3

A plan shows a fenced rectangle 7 squares long and 5 squares wide with a 1-square gate on a long side. The gate arc crosses the fence line at a corner. Describe the mistake and give a corrected layout.

Answer: The mistake is an arc that crosses the fence line. Correction: move the gate at least 1 square away from the corner or reverse the swing direction so the quarter-circle stays inside the run.

Reason: A quarter-circle arc from a corner gate can extend beyond the fence. Moving the gate or reversing the swing keeps the arc inside the boundary.

Check: Trace the arc from the hinge post and confirm it stays inside the fence line; recount the gate width as 1 square.

Task 4

On a one-square-equals-one-metre grid, draw a fenced rectangle 6 squares long and 4 squares wide with a 1-square gate on a short side. Create a paved zone 2 squares deep near the gate and a grass zone for the rest. Label dimensions, zones, and scale.

Answer: A 6 by 4 rectangle with a 1 m gate on a short side, a quarter-circle arc, a divider 2 squares from the gate side, a paved zone label in the near area, a grass zone label in the far area, dimensions 6 m and 4 m, and a scale note.

Reason: The divider depth is counted from the gate side. The remaining area is the grass zone. Dimensions and scale follow the grid.

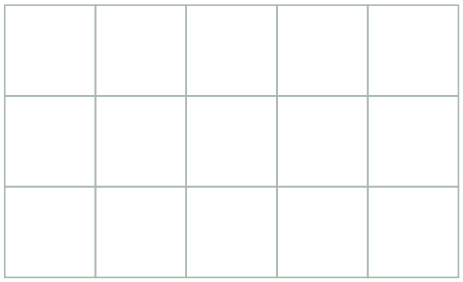
Check: Confirm the paved zone is 2 squares deep, the grass zone fills the remainder, the gate arc is clear, and all dimensions and the scale use metres.

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Task 1 / square-cell layout example

Task 1: 5 columns x 3 rows; one character per square cell.

Schematic cell size; task does not specify physical cell dimensions.



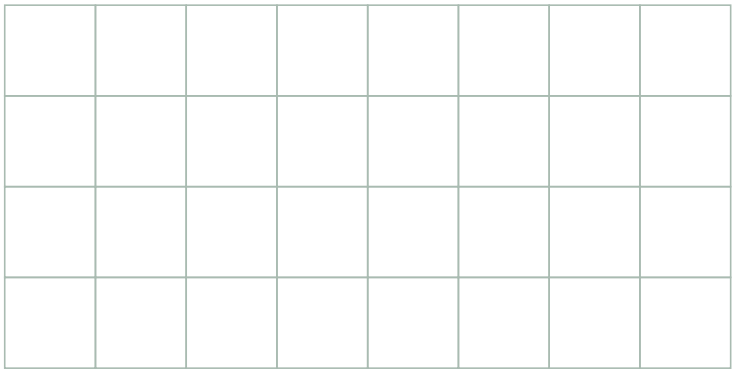
Reading-direction example: down each column, with columns ordered from right to left. Empty cells are deliberate: supply your own characters, one per cell.

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Task 2 / square-cell layout example

Task 2: 8 columns x 4 rows; one character per square cell.

Schematic cell size; task does not specify physical cell dimensions.



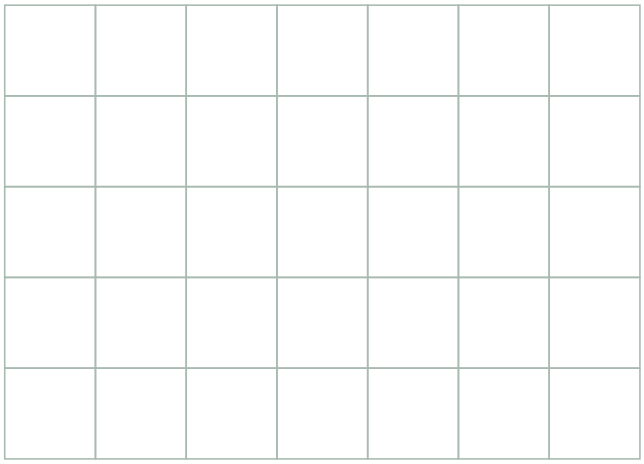
Reading-direction example: down each column, with columns ordered from right to left. Empty cells are deliberate: supply your own characters, one per cell.

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Task 3 / square-cell layout example

Task 3: 7 columns x 5 rows; one character per square cell.

Schematic cell size; task does not specify physical cell dimensions.



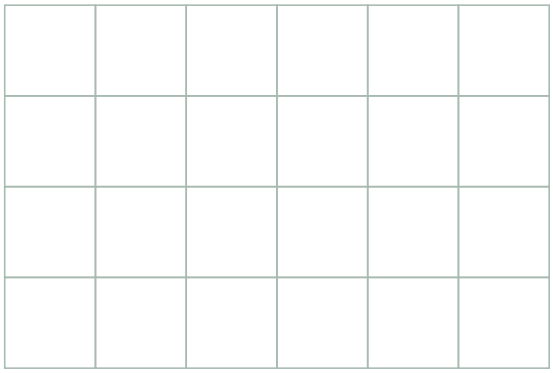
Reading-direction example: down each column, with columns ordered from right to left. Empty cells are deliberate: supply your own characters, one per cell.

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Task 4 / square-cell layout example

Task 4: 6 columns x 4 rows; one character per square cell.

Schematic cell size; task does not specify physical cell dimensions.



Reading-direction example: down each column, with columns ordered from right to left. Empty cells are deliberate: supply your own characters, one per cell.

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Source rubric / reflection

- [ ] Fence perimeter is a closed rectangle except at the gate gap.
- [ ] Gate width is labeled and the swing arc is a clear quarter-circle that does not cross the fence line.
- [ ] Two surface zones are divided and labeled inside the fence.
- [ ] Overall length and width dimensions match the grid count and use one consistent unit.
- [ ] Scale is stated and labels are legible; valid alternative letter styles and texture keys are accepted.

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