Blank Tables and Graphs

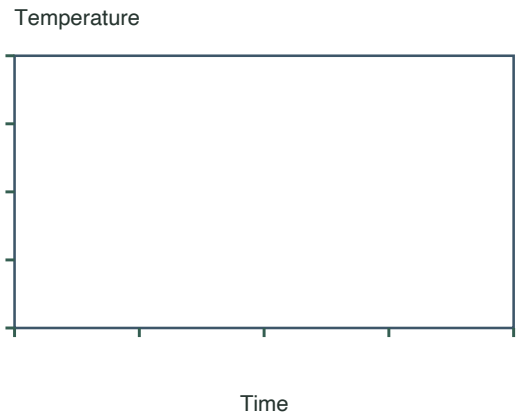
Original prompt

Task 1: A table is titled 'Temperature through the day' with columns 'Time' and 'Temperature'. The graph frame has no axis labels. Add the correct axis labels and say which variable is on which axis.

Temperature through the day

Time	Temperature

Temperature through the day



Answer

Horizontal axis: 'Time'. Vertical axis: 'Temperature'. Title on the frame: 'Temperature through the day'.

Reasoning

The table's first column is the independent variable and becomes the horizontal axis; the second column is the dependent variable and becomes the vertical axis.

Check

Check that each axis label exactly matches a table column heading and that the frame title matches the table title.

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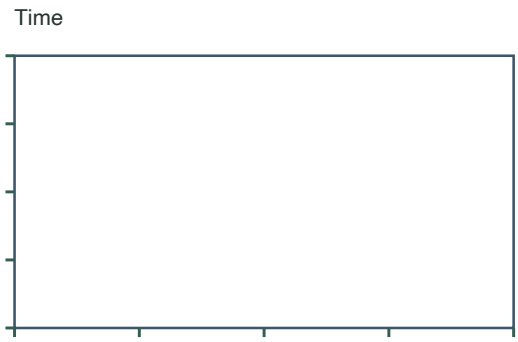
Task 2: Two blank tables and two blank graph frames are shown with different headings. Decide which table pairs with which frame and state the matching rule.

Walk record

Distance	Time

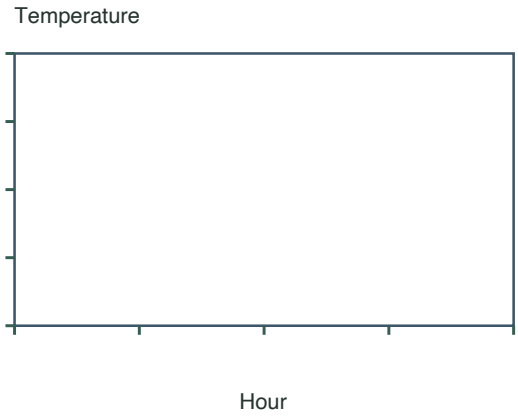
Walk record



Room warmth

Hour	Temperature

Room warmth



Answer

Pair Walk record with the Walk record frame: Distance goes on the horizontal axis and Time on the vertical axis. Pair Room warmth with the Room warmth frame: Hour goes on the horizontal axis and Temperature on the vertical axis.

Reasoning

Pairing is decided by label agreement: the axis labels must repeat the table's column headings, so matching is an observation of labels, not a guess.

Check

For each pair, confirm both axis labels appear as the table's column headings and that titles agree.

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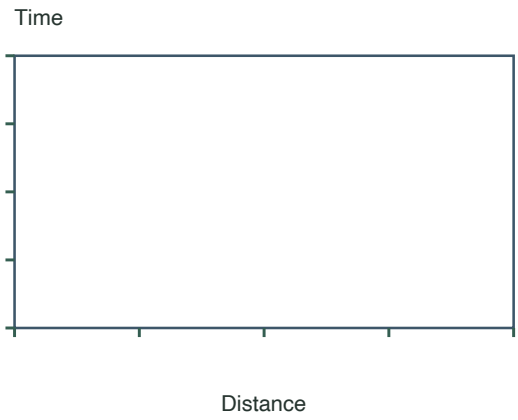
Task 3: Redraw a given paired organizer so that its graph frame matches its table. The supplied table has headings 'Distance' and 'Time'; the supplied frame has swapped axis labels. Correct the frame.

Trip record

Distance	Time

Trip record



Answer

Redraw the frame with 'Distance' on the horizontal axis and 'Time' on the vertical axis, keeping the table headings unchanged and the plotting area empty.

Reasoning

The frame must repeat the table's column order: first column on the horizontal axis, second column on the vertical axis.

Check

Compare the redrawn frame's axis labels with the table's column headings in order; confirm the plotting area remains blank.

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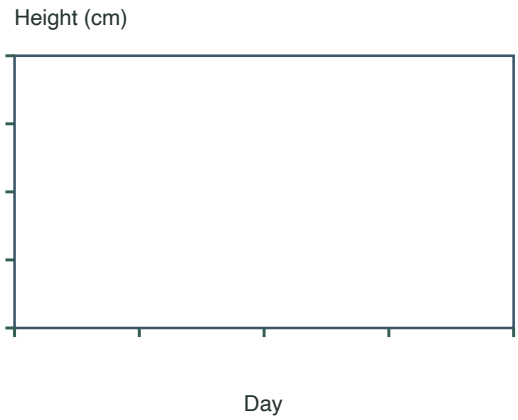
Task 4: Check a supplied paired organizer and list what is wrong. The supplied organizer has a table titled 'Growth' and a frame titled 'Height', with axis labels that do not match the table columns.

Growth

Day	Height (cm)

Growth



Answer

The frame title Height disagrees with the table title Growth. The frame's Hour and Leaves labels also disagree with the table. Use Growth as the frame title, Day on the horizontal axis and Height (cm) on the vertical axis.

Reasoning

A paired organizer is correct only when titles agree and each axis label repeats a table column heading.

Check

Verify title equality and one-to-one label agreement between table columns and axes; confirm the plotting area is empty.