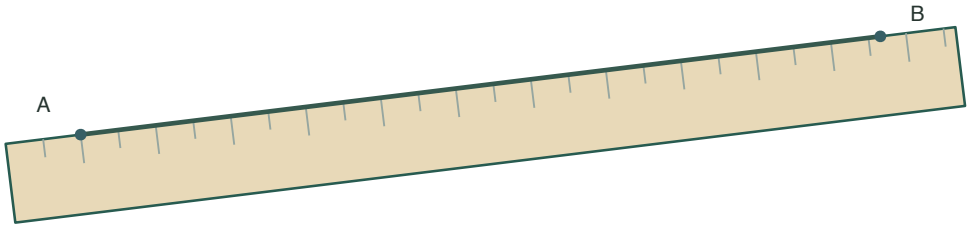
Drawing Straight Lines with a Ruler

Original prompt

Task 1: A sheet shows two dots. Place a ruler so its edge passes through both dots and draw the line along the edge.



Answer

Ruler edge touches both dots; pencil stays against the edge; finished line passes through both dots and sits flush with the edge.

Reasoning

The edge must pass through both dots so the line follows the intended path; drawing along the edge keeps the line straight.

Check

Lay the ruler edge along the line again: no gap between line and edge, and both dots are on the line.

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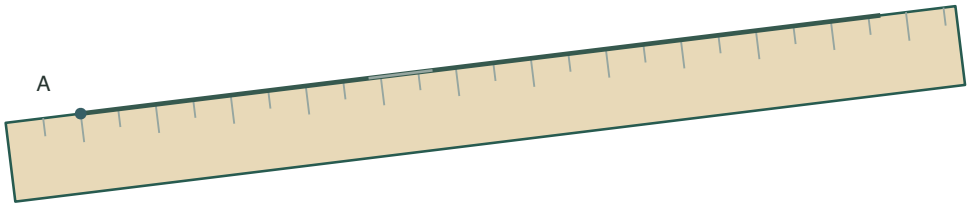
Task 2: A sheet shows a single dot and a short mark indicating direction. Place the ruler edge through the dot along the mark and draw a straight line from the dot in that direction.



Answer

Ruler edge passes through the dot and along the mark; line starts at the dot and follows the edge in the marked direction, flush with the edge.

Reasoning

The dot fixes the start point; the mark fixes the direction; the ruler edge carries that direction as a straight line.

Check

Check the line starts exactly at the dot, follows the marked direction, and sits flush with the ruler edge when re-laid.

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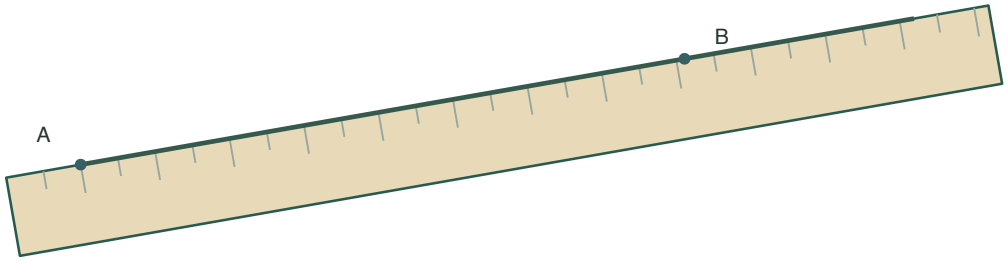
Task 3: A sheet shows two dots with a gap between them. Draw a straight line that starts at the first dot, passes through the second dot, and continues a short distance beyond it along the same ruler edge.



Answer

Ruler edge passes through both dots; line starts at the first dot, passes through the second, and continues beyond it along the same edge, flush throughout.

Reasoning

One ruler placement through both dots keeps the whole line straight, including the extension beyond the second dot.

Check

Re-lay the ruler edge: the line should be flush along its whole length and pass through both dots.

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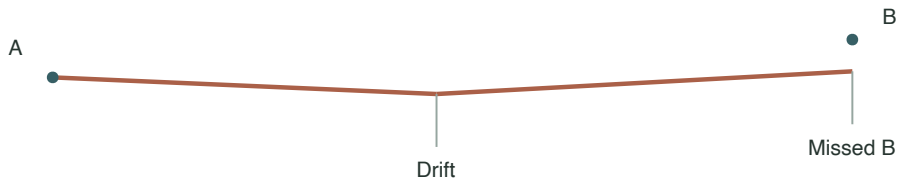
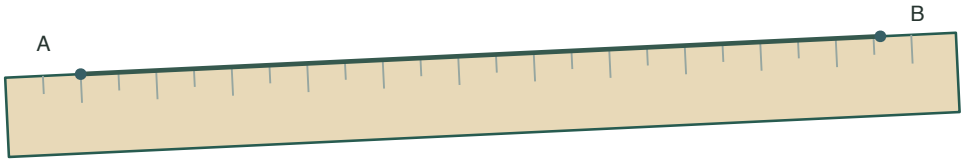
Task 4: A sheet shows a finished line drawn with a ruler. Check it visually: is it straight, does it sit flush with a ruler edge, and does it pass through the intended start and end points? Mark any drift or missed point.



Corrected straight line



Answer

The supplied line starts at A, then drifts below the straightedge alignment and ends below B. Mark the bend and the missed endpoint. Draw a segment joining the centers of A and B for the correction.

Reasoning

Visual checking against the ruler edge and the intended points is the verification step that confirms the drawing was done correctly.

Check

Check the bend and the missed endpoint below the intended path. Align the straightedge so the pencil tip can join the dot centers, then check the corrected straight line passes through both.