Simple Machines Drawings Worksheets: Label Six Machines

Original task 1 / independent drawing and calculation

Task 1

Draw a pulley in side view with a grooved wheel, an axle, a rope over the wheel, and a load hanging from one end. Label wheel, axle, rope, and load. Use solid outlines and place labels outside the drawing.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 2 / independent drawing and calculation

Task 2

Draw an inclined plane as a right triangle with a slope, a vertical height of 6 cm, and a horizontal base of 8 cm in a hypothetical example. Label slope, height, and base. Compute the slope length and state whether the drawn slope matches.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 3 / independent drawing and calculation

Task 3

Draw a wedge as a triangular block with two sloping faces meeting at a sharp edge and a thickness at the back. Label sloping faces, sharp edge, and thickness. Use dashed lines only if a hidden edge is shown.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 4 / independent drawing and calculation

Task 4

Draw a gear as a wheel with evenly spaced teeth around its rim and an axle at the center. Label teeth, wheel body, and axle. Count the teeth and state the count. Use a hypothetical count of 12 teeth if needed.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.