Draw and Label the Planets in Order: Size Comparison Worksheet

Original task 1 / independent drawing and calculation

Task 1

Draw a row of eight circles. Write the planet names below them in correct order from the Sun. Then shade each circle using the band system: one-quarter height for smaller than Earth, one-half height for about Earth-sized, three-quarters height for larger than Earth but smaller than Jupiter, and full height for Jupiter-sized or larger. Use the relative diameters Mercury 0.38, Venus 0.95, Earth 1.00, Mars 0.53, Jupiter 11.2, Saturn 9.4, Uranus 4.0, Neptune 3.9 as hypothetical examples.

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

A student writes the order as Mercury, Venus, Earth, Jupiter, Mars, Saturn, Uranus, Neptune. Identify the mistake and write the correct order.

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.

Draw and Label the Planets in Order: Size Comparison Worksheet

Original task 3 / independent drawing and calculation

Task 3

Draw four circles labeled Mercury, Earth, Jupiter, and Neptune. Shade each circle to show its band using the four-height convention. Explain why Jupiter gets full-height shading and Mercury gets one-quarter-height shading.

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.

Draw and Label the Planets in Order: Size Comparison Worksheet

Original task 4 / independent drawing and calculation

Task 4

A worksheet shows a size-comparison bar with four bands. A student shades Saturn to full height and Uranus to full height. Is this correct? Explain using the relative diameters Saturn 9.4 and Uranus 4.0.

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.