Copernicus Drawing: Figure and Heliocentric Diagram

Original task 1 / independent drawing and calculation

Task 1

A student draws a Sun at the center and four orbits with radii 12 mm, 24 mm, 36 mm, and 48 mm. They place dots at 12 mm, 30 mm, 36 mm, and 48 mm from the center. Which dot is off its orbit, and what is the fix?

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.

Copernicus Drawing: Figure and Heliocentric Diagram

Original task 2 / independent drawing and calculation

Task 2

Using an 8 mm x-height, how tall is an eight-unit figure in millimeters? If the head occupies the top unit, what is the head zone height?

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.

Copernicus Drawing: Figure and Heliocentric Diagram

Original task 3 / independent drawing and calculation

Task 3

A diagram has orbits at 10 mm, 20 mm, and 30 mm. The label box reads 1, 3, 2 from inner to outer. What is wrong, and how should the label read?

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.

Copernicus Drawing: Figure and Heliocentric Diagram

Original task 4 / independent drawing and calculation

Task 4

A figure is drawn with the head in the top unit but the feet 5 mm above the baseline. The x-height is 9 mm and the figure uses eight units. What is the total height from baseline to top of head if the feet are corrected to the baseline?

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

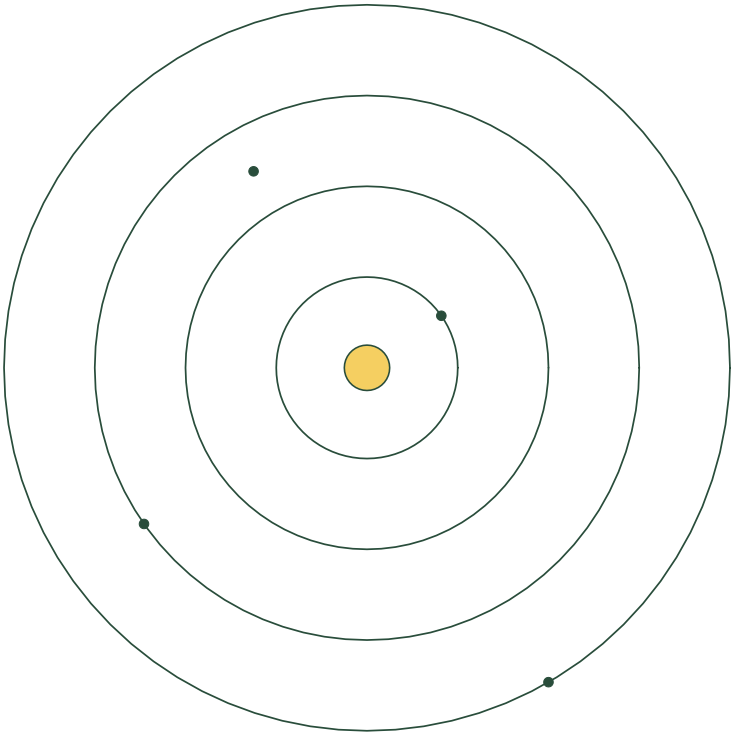
Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.

Copernicus Drawing: Figure and Heliocentric Diagram

Task 1 / practice

Companion standing figure + Sun-centred orbit-order diagram / hypothetical mm / not a portrait

TASK 1 / A student draws a Sun at the center and four orbits with radii 12 mm, 24 mm, 36 mm, and 48 mm. They place dots at 12 mm, 30 mm, 36 mm, and 48 mm from the center. Which dot is off its orbit, and what is the fix?

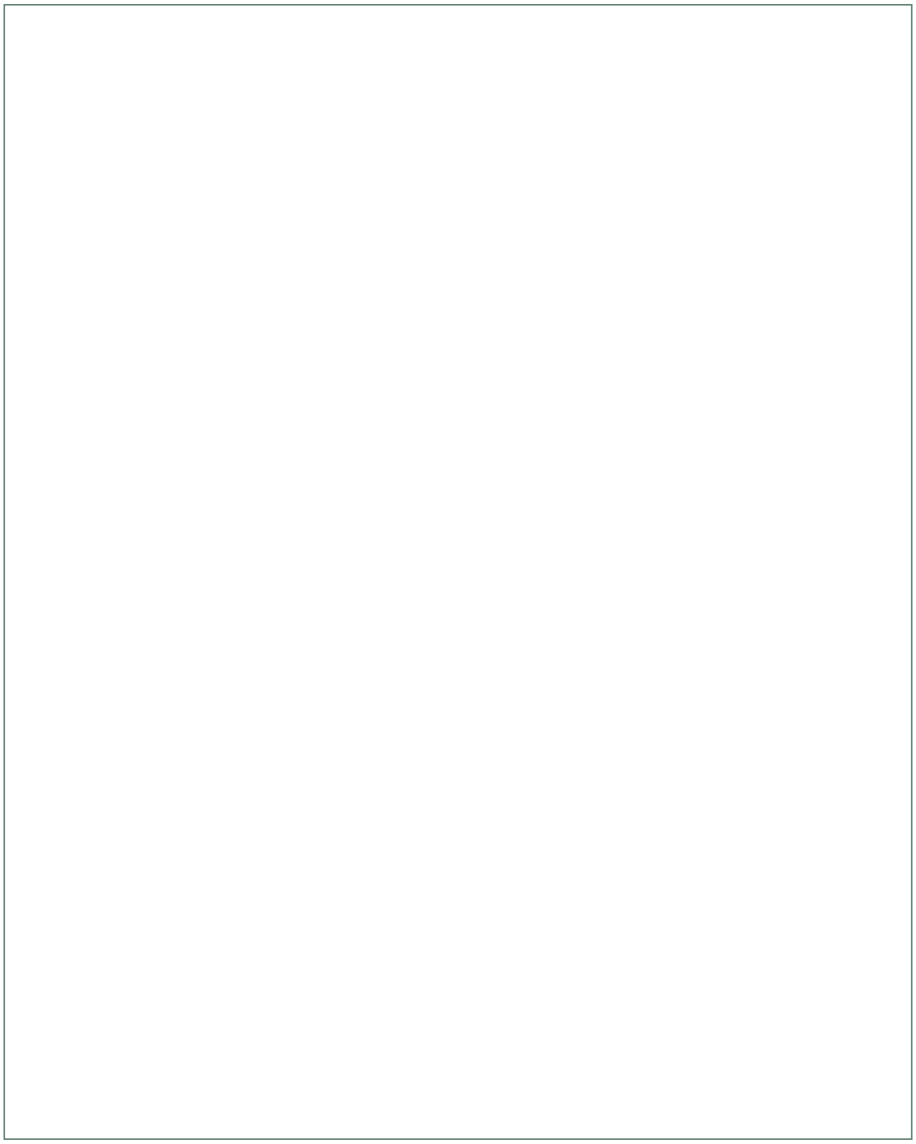


Copernicus Drawing: Figure and Heliocentric Diagram

Task 2 / practice

Companion standing figure + Sun-centred orbit-order diagram / hypothetical mm / not a portrait

TASK 2 / Using an 8 mm x-height, how tall is an eight-unit figure in millimeters? If the head occupies the top unit, what is the head zone height?

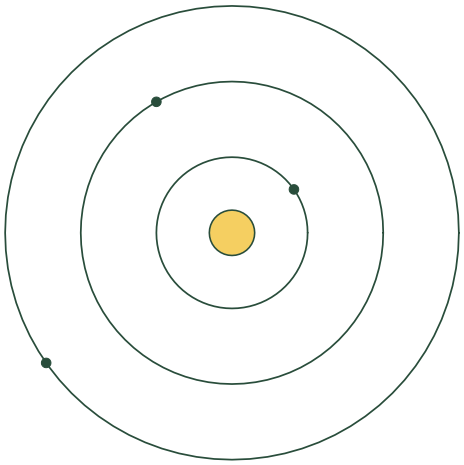


Copernicus Drawing: Figure and Heliocentric Diagram

Task 3 / practice

Companion standing figure + Sun-centred orbit-order diagram / hypothetical mm / not a portrait

TASK 3 / A diagram has orbits at 10 mm, 20 mm, and 30 mm. The label box reads 1, 3, 2 from inner to outer. What is wrong, and how should the label read?



INNER -> OUTER: 1 / 3 / 2

Copernicus Drawing: Figure and Heliocentric Diagram

Task 4 / practice

Companion standing figure + Sun-centred orbit-order diagram / hypothetical mm / not a portrait

TASK 4 / A figure is drawn with the head in the top unit but the feet 5 mm above the baseline. The x-height is 9 mm and the figure uses eight units. What is the total height from baseline to top of head if the feet are corrected to the baseline?

