

W3L2 | Calculation relay — without a race

Wednesday | 09:30–10:10 | Explore | Editable pupil sheet

Name: _____ Date: _____

Core first. Write, speak, point or dictate your own words. Keep the first attempt so you can improve it.

Optional support: 1. Name the missing value. 2. Match the units. 3. Choose $M = I \div A$, $I = M \times A$ or $A = I \div M$. 4. Show each line of working.

Work together

Work alone or in a pair. One person chooses the relationship; the other checks the units. Swap for the next item.

1. **A. Image = 20 mm; actual = 0.1 mm. Calculate magnification.**

2. **B. Image = 50 mm; actual = 0.5 mm. Calculate magnification.**

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Use after the core questions when directed

3. **C. Magnification = $\times 400$; actual = 0.05 mm. Calculate image size.**

4. **D. Image = 30 mm; magnification = $\times 600$. Calculate actual size.**

5. **E. Image = 25 mm; actual = 50 μm . Calculate magnification.**

6. **F. Put nm, μm and mm in order from smallest unit to largest.**

Optional transfer

What happens to M if only the printed image length doubles?

Depth: name an assumption or limit, then say what evidence would strengthen your answer.

Improve the same work

One correction I made, and why:

My request for next time: _____