

# DOINGWHATWORKS



SAMPLE MATERIAL

## Who Finishes When?

Worthington Hooker School, Connecticut

**Topic:** Improving Mathematical Problem Solving in Grades 4 Through 8

**Practice:** Problem-Solving Instruction

At Worthington Hooker School, pre-algebra students use visual representations to interpret and work through this *Who Finishes When?* problem.



## Who Finishes When?

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Alice's walking rate is 2.5 meters per second. Her younger brother, Mark, walks 1 meter per second. Because Alice's rate is faster than Mark's, Alice gives Mark a 45-meter head start in a 100 meter walking race. What happens in the race?

Explain your strategy in solving this problem and give evidence to support your answer.