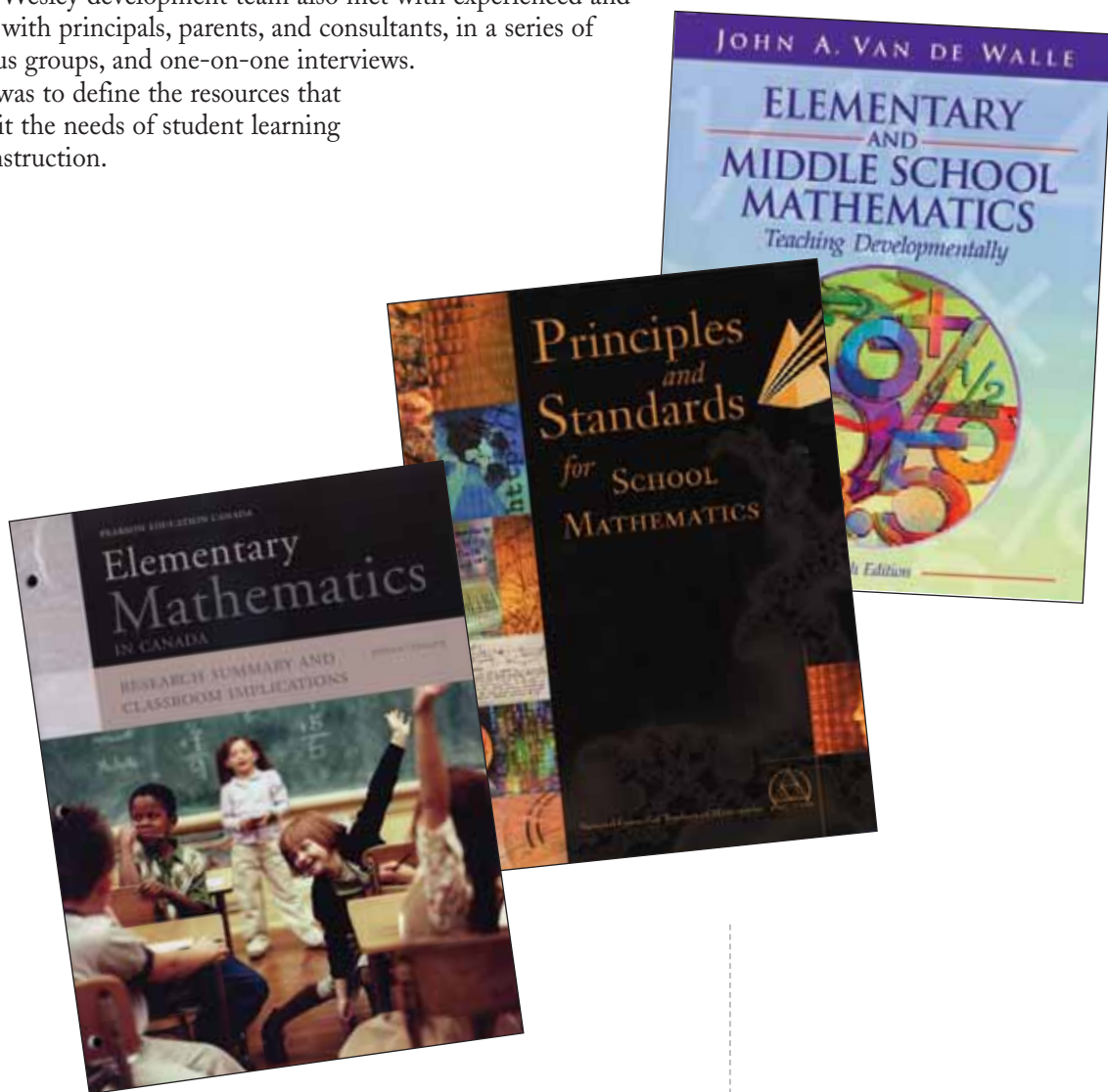


From Research to Classroom Practice

Addison Wesley Mathematics Makes Sense is based on the most current research about how students learn. The Addison Wesley development team examined published academic research and professional development resources, while we learned about ongoing research into the impact of current issues on classroom practice.

This research was shared with educators across Canada, as the development team assessed its implications for the creation of new mathematics resources for the classroom.

The Addison Wesley development team also met with experienced and new teachers, with principals, parents, and consultants, in a series of symposia, focus groups, and one-on-one interviews. Our purpose was to define the resources that would best suit the needs of student learning and teacher instruction.



Current research has profound implications for new classroom resources.

– Lynda Colgan, Program Adviser

Program development included field tests at each grade level. In the first year of field testing, 200 classrooms across Canada participated, involving 10,000 students and their teachers to validate program content and organization.

The Addison Wesley development team incorporated field-test teacher input as we refined program design at all levels.




LESSON

1 Measuring Linear Dimensions

You can measure how long, how wide, how tall, how deep, or how thick an object is.



Shannon measures the width of the blackboard in metres.



Danny measures Steven's height in centimetres.

Explore

You will need a 30-cm ruler and a metre stick or a measuring tape.

- ▶ Choose a classroom object.
- ▶ Estimate, then measure to the nearest unit.
- ▶ Record your work.

Repeat with other objects.
Include 2 objects you measure in centimetres and 2 in metres.

Show and Share

You can record your work in a table.

How did you use one measurement to help you estimate the next?
How did you use your ruler to measure?

Object	What We Measured	Estimate	Approximate Measurement
Table	Length	100 cm	80 cm

320 LESSON FOCUS | Estimate and measure in centimetres and metres.

Unit Problem Design a Backyard

Design a backyard for the Rizvi family.



360

Addison Wesley Mathematics Makes Sense is:

- Built from an understanding of current educational research
- Shaped against the backdrop of extensive market research into resource needs
- Field tested in hundreds of schools across Canada