Connecting Cubes with the Open Number Line · B12

Using Partial Products, Using Ten-Times

See B10 for details (page 25).

10 × 9

11 × 9

9 × 9

10 × 3

11 × 3

9 × 3

9 × 7

The Open Number Line · B13

Doubling and Halving

This minilesson introduces the doubling and halving strategy. The numbers keep the focus on automatizing the facts. Use a number line as a way to represent equivalence. Represent student strategies using leaps on the number line. At this point it should not be necessary to use a train of connecting cubes. Equivalent problems can be shown on the top and the bottom of the number line as shown on the diagram in Inside One Classroom, page 29.

2 × 6

4 × 6

4 × 3

3 × 8

6 × 4

12 × 2

24 × 1

4 × 7

2 × 14

12 × 3