

Lesson 2-7 • Group 2

Reinforce Understanding

2.7 Small Group • Group 2

I can divide with decimals by making the divisor a whole number first, explain why the method works, and use it on a problem I have not seen before.

Worked model

A ribbon 82.2 meters long is cut into 4 equal pieces. How long is each piece?

1. Write 82.2 inside the bracket with 4 outside. The divisor is already a whole number.
2. Put the quotient's decimal point straight above the point in 82.2, then start dividing.
3. Divide, multiply, subtract, bring down — one place-value column at a time.
4. An amount is still left over, so annex a zero to 82.2 and keep dividing.

Answer: Each piece is 20.55 meters long.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Solve each decimal division problem.

Complete the table. Show how you found each value.

Division Problem	Quotient
$9.6 \div 0.8$	
$15.6 \div 1.3$	
$24.5 \div 3.5$	
$5.76 \div 0.24$	
$11.34 \div 0.9$	

Show your work
