

Lesson 2-7 • Apply Day

Reinforce Understanding

Dividing by a Decimal

I can divide with decimals by making the divisor a whole number first.

Worked model

How many 0.4-liter cups can be filled from 9.6 liters of juice?

1. The divisor 0.4 is not whole, so slide its point one place right to make it 4.
2. Slide the dividend's point the same one place: 9.6 becomes 96.
3. Divide the equivalent problem $96 \div 4$ with the usual algorithm.
4. Sliding both points multiplies both numbers by ten, so the quotient does not change.

Answer: 24 cups can be filled, because $9.6 \div 0.4$ and $96 \div 4$ have the same quotient.

Practice

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

1. (Lesson 2.6) Divide 252 by 6. Give the quotient and remainder.

Complete each step, then write the final answer.

1. 6 fits into 252 about ____ times.
2. Multiply back: $6 \times 42 =$ ____.
3. The amount left is ____.

Answer: _____

2. (Lesson 2.6) Divide 316 by 7. Give the quotient and remainder.

Complete each step, then write the final answer.

1. 7 fits into 316 about ____ times.
2. Multiply back: $7 \times 45 =$ ____.
3. The amount left is ____.

Answer: _____

3. (Lesson 2.6) Divide 386 by 8. Give the quotient and remainder.

Complete each step, then write the final answer.

1. 8 fits into 386 about ____ times.
2. Multiply back: $8 \times 48 =$ ____.
3. The amount left is ____.

Answer: _____