## **Dividing a Whole Number** by a Decimal

To divide a whole number by a decimal, multiply both numbers by a power of 10 to make the divisor a whole number.

**Divide:** 138 ÷ 0.04

Multiply by 100 to make 0.04 a whole number. Remember to multiply 138 by 100, too.

$$0.04 \times 100 = 4$$

$$138 \times 100 = 13,800$$

Use long division to find the quotient:

So,  $138 \div 0.04 = 3,450$ .

Use long division to find each quotient.

Find each quotient.

- **16.** A kitchen floor has an area of 48 square feet. One tile covers 0.75 square foot. How many tiles would be needed to cover the entire kitchen floor?
- 17. Mark says that to divide 58 by 0.65, you only need to multiply both numbers by 10 because that will give you a whole number. Jan says you need to multiply both numbers by 100. Who is correct and why?