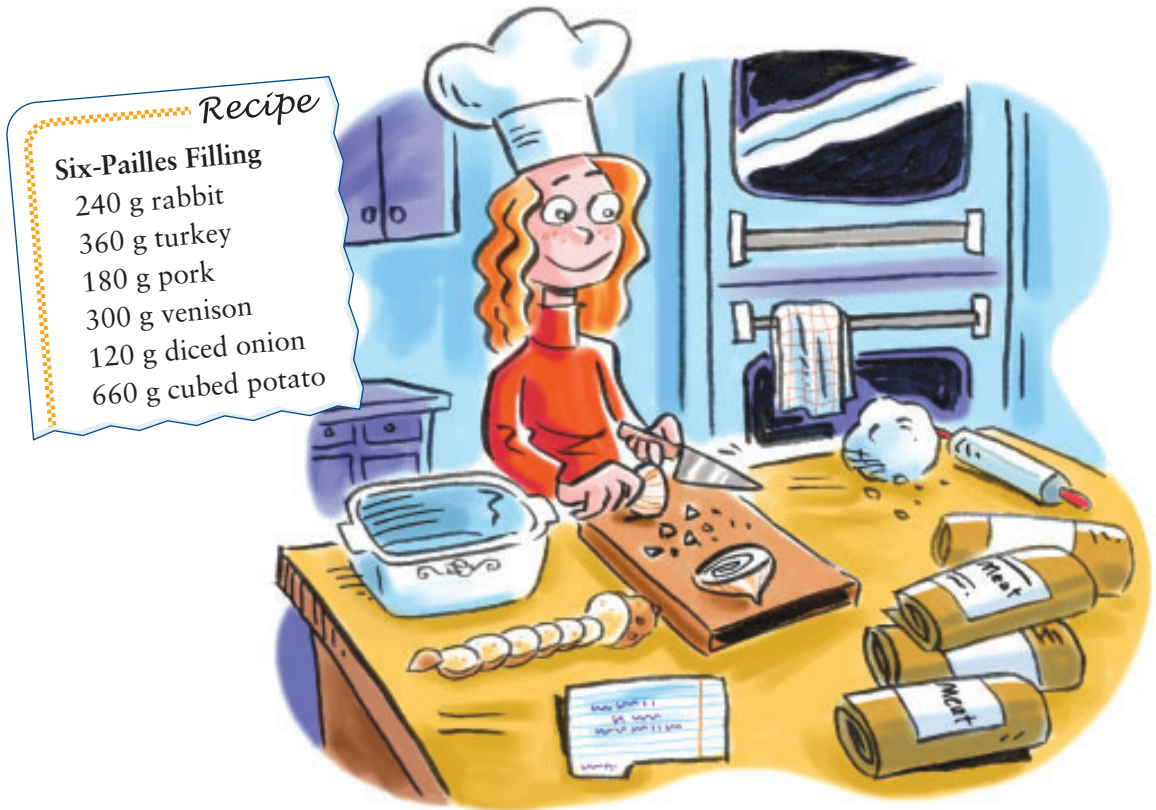# Dividing Tens and Hundreds

You will need
• base ten blocks

GOAL

Divide tens and hundreds by one-digit numbers.

A French Canadian casserole called *Six-Pailles* is made with six layers of pie dough and six layers of filling. The recipe card shows the ingredients for one version of the filling.

Recipe

Six-Pailles Filling
240 g rabbit
360 g turkey
180 g pork
300 g venison
120 g diced onion
660 g cubed potato

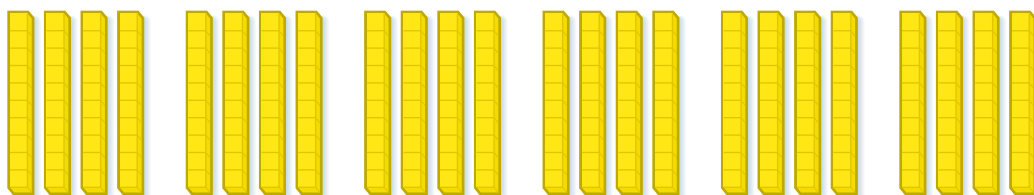**How many grams of each ingredient are in each layer of filling?**

Cara's Calculations

There are 6 layers of filling. I need to divide the number of grams of each ingredient by 6.
I'll rename 240 g of rabbit as 24 tens.
I'll make 6 groups with 4 tens in each group, since 24 ÷ 6 = 4.
There are 40 g of rabbit in each layer.

A. Why could Cara write 240 as 24 tens?

B. Use Cara's strategy. How many grams of the other ingredients are in each layer of filling?

Reflecting

C. Why might you write 660 as either 66 tens or 6 hundreds + 6 tens to divide by 6?

D. How can you use 30 ÷ 6 to calculate 300 ÷ 6?

Checking

1. The 350 students in Aaron's school were put in groups of 5 for a clean-up activity. How many groups were there?

2. Calculate.
   a) 240 ÷ 8 = ▢   **c)** 560 ÷ 7 = ▢
   b) ▢ = 800 ÷ 4   **d)** ▢ = 810 ÷ 9

Practising

3. Paper comes in packs of 100 sheets. Blank CDs come in packs of 10. How many packs are needed for each quantity?
   a) 450 CDs
   b) 180 CDs
   c) 400 sheets of paper
   d) 300 sheets of paper

4. Write the division equation that each model represents.

   a)

   b)

   c)

   d)

5. Calculate.
   a) $160 \div 2 = \blacksquare$
   b) $350 \div 7 = \blacksquare$
   c) $\blacksquare = 480 \div 8$
   d) $\blacksquare = 600 \div 3$

6. Draw a picture to show how calculating $280 \div 7$ is related to calculating $28 \div 7$. Explain your picture.

7. Solve each equation.
   a) $420 \div t = 70$
   b) $40 = 360 \div v$
   c) $560 \div w = 70$
   d) $80 = 720 \div x$

8. Explain why most people think that calculating $630 \div 9$ is easier than calculating $600 \div 9$.