Packing Boxes

Your Challenge

Your school is collecting cans of soup to donate to the local food pantry. You and your friends are helping by packing 850 cans into boxes of two different sizes. The large boxes can fit 8 cans, and the small boxes can fit 6 cans.

1. How many boxes of each size could you pack if you fill each box and have no cans left over? Show your thinking on the **Recording Sheet**.

2. What is the fewest number of boxes you will need if you fill all the boxes completely? Show your thinking on the **Recording Sheet**.

1

Packing Boxes

1.

2.

Number Strips

Your Challenge

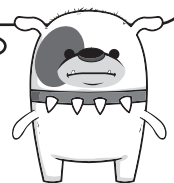**1.** Tucker made a giant number strip counting by 8s. A piece of it is shown at the right. Tucker says he can easily compute 3,216 ÷ 8 because he knows that 3,200 is 400 × 8. Use Tucker's reasoning to solve 3,264 ÷ 8.

```
3,200
3,208
3,216
3,224
3,232
3,240
3,248
3,256
```

2. Tucker made another number strip, but some of the numbers were erased. Fill in the missing numbers in the strip below. Divide 4,872 by the number Tucker counted by. Use reasoning to solve the division problem.

```
_____
4,858
_____
4,872
4,879
4,886
_____
_____
```

What division problem can help you?

Number Strips *continued*

3. Make your own number strip. Choose a factor and put the 100th multiple somewhere on the strip. Make the strip at least seven numbers long. What division problems can you easily solve using your strip?