Lucia picked 3 times as much corn as Eli. Together, they picked 96 ears of corn. Eli wants to divide the number of ears he picked equally among 8 bags. How many ears of corn will Eli put in each of the 8 bags?

**Read the Problem**

**What do I need to find?**
I need to find the number of _______ that will go in each bag.

**What information do I need to use?**
Lucia picked _____ times as much corn as Eli.
Together they picked _____ ears of corn. The number of ears Eli picked are divided equally among _____ bags.

**How will I use the information?**
I will make a bar model for each step to visualize the information. Then I will _____ to find the number of ears Eli picked and _____ to find the number for each bag.

**Solve the Problem**
I can draw bar models to visualize the information given.

First, I will model and compare to find the number of ears of corn that Eli picked.

Lucia's

Eli's

96

96 ÷ 4 = _____

numeber of parts

Then I will model and divide to find how many ears of corn Eli will put in each bag.

1. How many ears of corn will Eli put in each bag? __________
2. How can you check your answers? ________________
### Try Another Problem

There are 8 dinner rolls in a package. How many packages will be needed to feed 64 people if each person has 2 dinner rolls?

#### Read the Problem

<table>
<thead>
<tr>
<th>What do I need to find?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>What information do I need to use?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>How will I use the information?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

#### Solve the Problem

<table>
<thead>
<tr>
<th>How many packages of rolls will be needed?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>How did drawing a bar model help you solve the problem?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

3. How many packages of rolls will be needed?

4. How did drawing a bar model help you solve the problem?
1. A firehouse pantry has 52 cans of vegetables and 74 cans of soup. Each shelf holds 9 cans. What is the least number of shelves needed for all the cans?

First, draw a bar model for the total number of cans.

Next, add to find the total number of cans.

Then, draw a bar model to show the number of shelves needed.

Finally, divide to find the number of shelves needed.

So, _____ shelves are needed to hold all of the cans.

2. THINK SMARTER What if 18 cans fit on a shelf? What is the least number of shelves needed? Describe how your answer would be different.

3. Julio’s dad bought 10 dozen potatoes. The potatoes were equally divided into 6 bags. How many potatoes are in each bag?

4. At the garden shop, each small tree costs $125 and each large tree costs $225. How much will 3 small trees and 1 large tree cost?
5. **THINK SMARTER** Ms. Johnson bought 6 bags of balloons. Each bag has 25 balloons. She fills all the balloons and puts 5 balloons in each bunch. How many bunches can she make?


7. **Communicate** Use the table at the right. Maria bought 80 ounces of apples. She needs 10 apples to make a pie. How many apples will be left over? Explain.

<table>
<thead>
<tr>
<th>Fruit</th>
<th>Average weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peach</td>
<td>6 ounces</td>
</tr>
<tr>
<td>Apple</td>
<td>5 ounces</td>
</tr>
<tr>
<td>Plum</td>
<td>2 ounces</td>
</tr>
</tbody>
</table>

8. **GO DEEPER** Taylor has 16 tacks. She buys 2 packages of 36 tacks each. How many garage sale posters can she put up if she uses 4 tacks for each poster?

9. **THINK SMARTER** Ryan bought 8 dozen bandages for the track team first-aid kit. The bandages were divided equally into 4 boxes. How many bandages are in each box?
Name ________________________________

**Problem Solving • Multistep Division Problems**

Solve. Draw a diagram to help you.

1. There are 3 trays of eggs. Each tray holds 30 eggs. How many people can be served if each person eats 2 eggs?
   - **Think:** What do I need to find? How can I draw a diagram to help?
   - **Multiply to find the total number of eggs.**
   - **Divide to find how many people can be served 2 eggs.**
   - **45 people can be served.**

2. There are 8 pencils in a package. How many packages will be needed for 28 children if each child gets 4 pencils?

3. There are 3 boxes of tangerines. Each box has 93 tangerines. The tangerines will be divided equally among 9 classrooms. How many tangerines will each classroom get?

4. **WRITE Math** Write a two-step problem that you can solve using the strategy *draw a diagram*. Explain how you can use the strategy to find the solution.
Lesson Check (4.OA.A.3, 4.NBT.B.6)

1. Gavin buys 89 blue pansies and 86 yellow pansies. He will plant the flowers in 5 rows with an equal number of plants in each row. Draw a bar model to help you find how many plants will be in each row.

2. A pet store receives 7 boxes of cat food. Each box has 48 cans. The store wants to put the cans in equal stacks of 8 cans. Draw a bar model to help you find how many stacks can be formed.

Spiral Review (4.OA.A.3, 4.NBT.B.5, 4.NBT.B.6)

3. What product does the model show?

```
  20  6
  10
  4
```

4. Mr. Hatch bought 4 round-trip airplane tickets for $417 each. He also paid $50 in baggage fees. How much did Mr. Hatch spend?

```
10
```

5. Mae read 976 pages in 8 weeks. She read the same number of pages each week. How many pages did she read each week?

```
20
```

6. Yolanda and her 3 brothers shared a box of 156 toy dinosaurs. About how many dinosaurs did each child get?

```
6
```