Problem Solving: Draw a Picture and Write an Equation

Zoo keepers divided some land into 4 sections for the monkeys at the zoo. Each section has 23 monkeys. How many monkeys are at the zoo?

Read and Understand

Choose a variable for the unknown. The unknown is the total number of monkeys at the zoo.

Let m = the total number of monkeys.

Draw a picture to show that the total number of monkeys is divided into 4 equal sections of 23 monkeys.

	m		
23	23	23	23
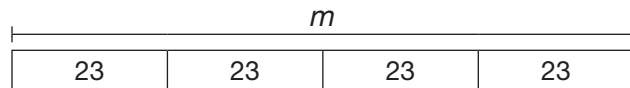
Plan and Solve
Write an equation using the variable and the picture.

$m \div 4 = 23 \leftarrow$ Use division.

Solve the equation.

$$m \div 4 = 23$$
$$m \div 4 \times 4 = 23 \times 4$$
$$m = 92$$
There are 92 monkeys at the zoo.

Write an equation for **1**. Solve each problem.

1. Juan has 6 times as many basketball cards as Nick. If Juan has 192 basketball cards, how many does Nick have?

	192				
x	x	x	x	x	x

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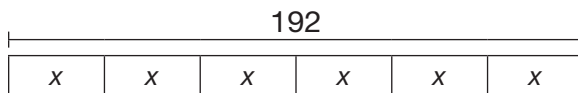
2. Several sixth grade classes are going on a field trip to a planetarium. The teachers divided the classes into 19 groups. There are 7 students in each group. How many students are going to the planetarium? Use the equation $c \div 19 = 7$.

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3. Each bus for a field trip can carry 27 students. If 216 students are going on the field trip, how many buses are needed? Use the equation $27n = 216$.

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