

Solve. Show your work by drawing strip diagrams.

- Two friends like to look for lost pennies on the sidewalk. In one day, George found 9 pennies and Carol found 4 times as much George. How many pennies did Carol find?

I could draw all 9 of the pennies George found, but it's easier for me to think of the 9 as one collection, or one unit. Then I can draw a bar 4 times as long for Carol.

Putting the nines in each unit helps me find the total. I could add or multiply to find the answer.

The unknown in this problem is the greater amount.

$9 \times 4 = 36$

Carol found 36 pennies.

- Bruce rode his bike on Monday and Friday. On Friday, he rode 6 times as far as he did on Monday. If he rode 30 miles on Friday, how far did he ride on Monday?

This problem tells me the greater number. I need to find the smaller amount.

One way to solve this problem was to use division. I could also think 6 times something equals 30.

$30 \div 6 = 5$

$6 \times ? = 30$

Bruce rode his bike 5 miles on Monday.

4. Mr. Peterson will need 2 gallons of paint to paint his kitchen. He will need 2 times that amount to paint his bedroom, and 5 times that amount to paint his livingroom. If he wants to paint all three rooms, how many gallons of paint does Mr. Peterson need?
5. The average life span of a parrott is 80 years. That is 8 times as much as the average life span of a green frog. The average life span of a horse is 4 times that of a green frog. What is the average life span of a green frog? What is the average life span of a horse?

