

Problem Solving: Guess and Check

CA Standards
MR 2.0, NS 2.0

Use a guess and check strategy to solve each problem.

1. A caterpillar has twice as many legs as a spider. Together, they have 24 legs. How many legs does the spider have? How many legs does the caterpillar have?

3. Two house spiders caught 14 flies in their respective webs over a week's time. The larger spider caught 2 more flies than the smaller spider. How many flies did each spider catch?

5. At the Natural History museum Paula saw 5 times as many beetles as spiders. She saw 6 more spiders than caterpillars. If Paula saw 50 insects and spiders, how many of each kind did she see?

2. A male black widow spider is half the size of a female black widow spider. Together, they are 21 millimeters (mm) in length. How big is a female black widow? A male?

4. An average-sized female spider and a large spider can lay a total of 2,100 eggs at one time. The large spider lays 20 times the number of eggs as the average-sized spider. How many eggs does the average-sized spider lay?

6. In Harry's attic there are three spider webs. The first web is twice as large as the second web. The third web is 3 inches larger than the first web. The combined width of the three webs is 1 foot and 6 inches. How long is each web?
