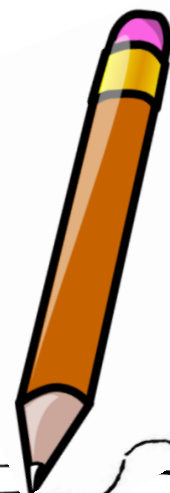
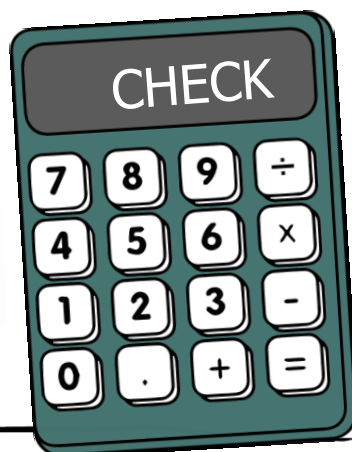


# Estimate, Check and Improve



Can estimating  
help me find a  
reasonable  
answer?



Sometimes you can make an informed estimate of the answer to a problem then check if your estimate is reasonable. If you're not close the first time, improve your thinking and check again.

**The Problem:** My helmet and skateboard costs \$120 altogether. The skateboard costs \$40 more than the helmet. How much did the helmet cost?

**Step 1:** Read the problem carefully.

**Step 2:** Determine a reasonable estimate for the answer.

**Step 3:** Check if your estimate is correct.

**Step 4:** If not, use what you have learned to improve your estimate and check again.

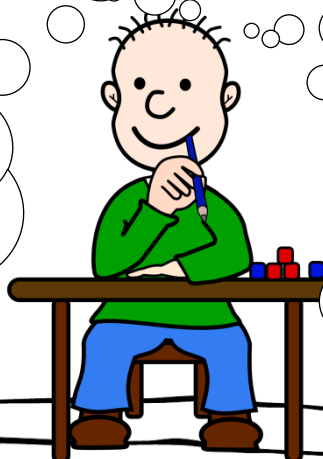
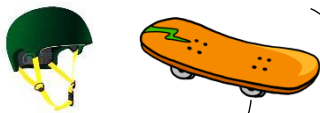
**Step 5:** Continue to adjust your estimate and check until you find the correct answer

2. The helmet costs less than the skateboard so must cost less than half. Half of 120 is 60, so I'll estimate the helmet costs \$50.

3. If the helmet costs \$50, then the board would cost \$80.  $\$80 + \$50$  is more than \$120. So I'll need to improve my estimate.

4. My estimate was \$10 over. So if I take \$10 from the helmet price maybe that will work?

1. The helmet and board add to \$120.



5. I'll check again.  $\$40 + \$80 = \$120$  So the helmet is \$40. That's correct!

