**Estimating Square Roots without a Calculator**

Estimate each of the following square roots to the nearest hundredth. Show your work.

1. 2.
2. 4.

**5.** Write instructions on how to estimate the square root of a number that is not a perfect square.

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**6.** Sudip estimates that  is about six. Do you agree or disagree? Explain.

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**7.** Is more or less than 10? Explain. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**8.** Is 8.5 a good first guess for ? Why or why not?

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