

CALCULATING FIRST-SERVE PERCENTAGE

- ✓ Divide a player's number of first serves completed (in-bounds) by the total number attempted.
- ✓ Round to the nearest hundredth.
- ✓ Multiply your rounded number by 100 and add a percent sign. That's the first-serve percentage.

Example: At the BNP Paribas Open in March, rising star Dinara Safina of Russia completed 59 out of 88 first serves in a match against Victoria Azarenka of Belarus. What was Safina's first-serve percentage?

- ✓ Divide: $59 \div 88 = .67045$
- ✓ Round: .67
- ✓ Multiply and add a percent sign: $.67 \times 100 = 67$; her first-serve percentage was 67%.

1 At the 2009 Australian Open in February, champion Serena Williams completed 21 out of 37 first serves in the final round.

a. What division problem would you solve to find Serena's first-serve percentage?

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b. What was her first-serve percentage?

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2 In the finals at the 2008 Wimbledon tournament in England, Venus Williams defeated her sister Serena, completing 57 out of 91 first serves. What was Venus's first-serve percentage?

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3 At last year's French Open, Carla Suarez Navarro of Spain completed 256 out of 352 first serves. What was her first-serve percentage?

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4 At the 2008 U.S. Open in New York, Serena Williams defeated Jelena Janković of Serbia for the championship. In the match, Janković completed 65 out of 95 first serves. Williams completed 45 out of 73. Which player had the higher first-serve percentage, and by how many percentage points?

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5 At the Open GDF Suez tournament, held in France in February, champion Amélie Mauresmo of France completed 62

first serves in the final match. She completed 56% of her first serves. How many did she attempt? (Round to the nearest whole number.)

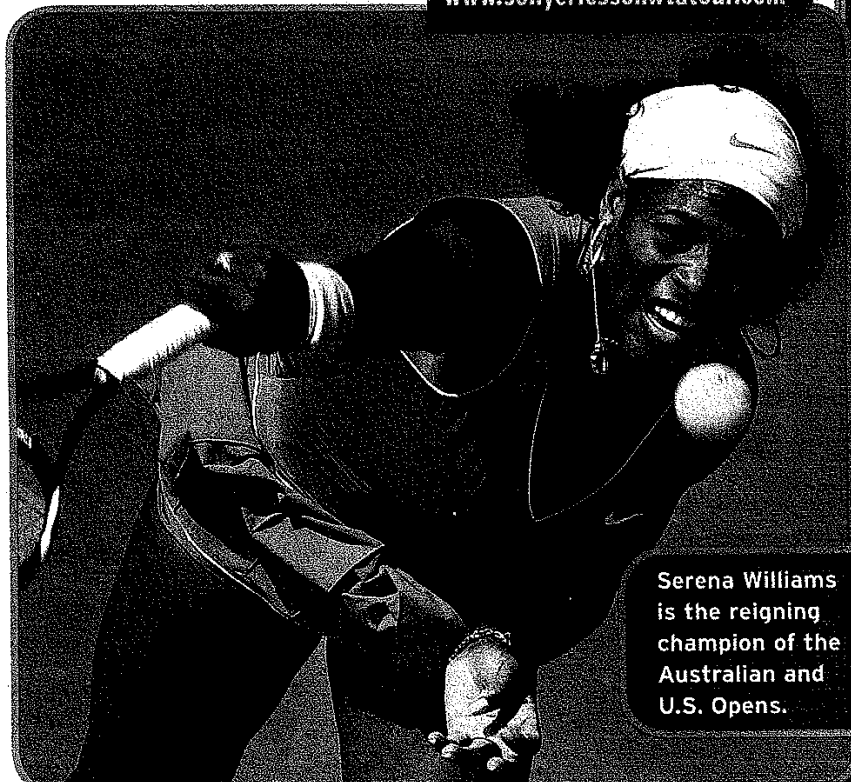
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6 At the 2008 Wimbledon, Camille Pin of France had the highest overall first-serve percentage: 84%. She attempted 117 first serves. How many did she complete? (Round your answer to the nearest whole number.)

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Serena Williams is the reigning champion of the Australian and U.S. Opens.