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- 1 If the area of a rectangle is 306 square centimeters (cm^2) and one dimension is 6 centimeters, what is the measurement of the other dimension? Use labeled sketches and equations to model and solve this problem.
- 2 If the area of a rectangle is 612 square centimeters (cm^2) and one dimension is 12 centimeters, what is the measurement of the other dimension? Use labeled sketches and equations to model and solve this problem.
- 3 If the perimeter of a rectangle is 306 centimeters and one dimension is 6 centimeters, what is the measurement of the other dimension? Use labeled sketches and equations to model and solve this problem.

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- 4** Six people are splitting the cost of a boat trip. The total is \$306. What is each person's share? Show your work.
- 5** Twelve people are splitting the cost of the same boat trip for a total of \$306. Jenny says that each person's share will be half as much as in problem 4. Do you agree with Jenny? Explain your answer, and then solve the problem to prove that you are correct.
- 6** Three people are splitting the cost of meals on the boat trip. The cost is \$153. What is each person's share? Pedro says that the answer to this problem will be the same as the answer to problem 4. Do you agree with Pedro? Explain your answer, and then solve the problem to prove that you are correct.
- 7** **CHALLENGE** Orlando and his 4 friends joined Michael and his 3 friends in purchasing a gift for their baseball coach. The gift cost \$15.75 and the 9 friends split the amount equally. How much did each person spend? Show your work.