



## Problem of the Week

### Problem B

### And the Winner Is...

Winners in the Roll Down the Brim contest at Tom Hinton's have to answer skill testing questions in order to claim the grand prizes of cars, TVs, or \$5000 cash. You and a friend decide to try some of the questions, but you keep getting different answers.

For each question, decide which answer is correct, and explain why.

a) Is the value of  $6 + 8 \div 2 - 5$  equal to 5, or is it equal to 2?

b) Is the value of  $7 \times 4 + 12 \div 2$  equal to 20, or is it equal to 34?

c) Is the value of  $12 - 6 + 9 \div 3$  equal to 5, or is it equal to 9?

d) Having calculated the value of  $16 + 4 \times 3 \div 6 + 4 \times 3$ , you got an answer of 30. But your friend got 42. Which answer is correct? Explain how each answer was obtained.

