## Correct.

 $3 = \log_b 216$  is equivalent to  $b^3 = 216$ .

 $2^3 = 8$  and  $10^3 = 1$ , 000, so *b* is between 2 and 10.

Now,  $6^3 = 6 \cdot 6 \cdot 6 = 216$ , so b = 6.