

Answer Key

Challenge: Skills and Applications

1. direct variation; $k = 8$, $A = 8L$
2. no direct variation
3. direct variation; $k = 400$; $V = 400d$
4. *Sample answer:* Yes, there is a relationship. The volume is a product of a constant depth time the square of the side.
5. about 514 calories
6. \$30.00
7. yes; 10