

1. **Answer (C):** Susan pays  $(4)(0.75)(20) = 60$  dollars. Pam pays  $(5)(0.70)(20) = 70$  dollars, so she pays  $70 - 60 = 10$  more dollars than Susan.
2. **Answer (D):** The brick has a volume of  $40 \cdot 20 \cdot 10 = 8000$  cubic centimeters. Suppose that after the brick is placed in the tank, the water level rises by  $h$  centimeters. Then the additional volume occupied in the aquarium is  $100 \cdot 40 \cdot h =$

7. **Answer (C):** Let  $D$  be the difference between consecutive terms of the sequence. Then  $a = c - 2D$ ,  $b = c - D$ ,  $d = c + D$ , and  $e = c + 2D$ , so

$$a + b + c + d + e = (c - 2D) + (c - D) + c + (c + D) + (c + 2D) = 5c.$$

Thus  $5c = 30$ , so  $c = 6$ .