

## SECTION 4.4

1. The rate of the boat is 15 mph. The rate of the current is 3 mph.
3. The rate of the plane is 502.5 mph. The rate of the wind is 47.5 mph.
5. The rate of the team is 8 km/h. The rate of the current is 2 km/h.
7. The rate of the plane is 180 mph. The rate of the wind is 20 mph.
9. The rate of the plane is 110 mph. The rate of the wind is 10 mph.
11. There are 30 nickels in the bank.
13. The cost of the pine was \$.15 per foot; the cost of the redwood was \$.25 per foot.
15. The cost of the wool carpet is \$26 per yard.
17. The company plans to manufacture twenty-five 10-speed bicycles.
19. There are 480 g of the first alloy and 40 g of the second alloy.
21. The cost of a Model VI computer is \$4000.
23. The science museum sold 190 regular tickets, 210 student tickets, and 350 member discount tickets.
25. The investor placed \$10,400 in the 8% account, \$5200 in the 6% account, and \$9400 in the 4% account.
27. The angles are  $35^\circ$  and  $145^\circ$ .
29. The oil painting is 85 years old and the watercolor is 50 years old.