1 **import** java.awt.\*;

2 **public** **class** RowBoat

3 {

4 **private** **static** **int** PRICE\_PER\_FOOT = 10;

5 **private** **int** x, y, length;

6 **private** Color color = Color.GREEN;

7

8 **public** RowBoat()

9 {

10

11 }

12 **public** RowBoat(**int** x, i**n**t y, **int** length)

13 {

14 **this**.x = x;

15 **this**.y = y;

16 **this**.length = length;

17 }

18 **public** **int** calculatePrice()

19 {

20 **return** **length** \* PRICE\_PER\_FOOT;

21 }

22 **public** **void** show(Graphics g)

23 {

24 **int**[] xBoat = {x , x + length, x + 6 \* length / 7, x + length/14};

25 **int**[] yBoat = {y, y, y + length / 7, y + length / 7};

26 **int** price = calculatePrice();

27 g.setColor(color); **//draw the Boat**

28 g.fillPolygon(xBoat, yBoat, xBoat.length);

29 g.setColor(Color.BLACK); **//draw the boat's price in black**

30 g.setFont(new Font("Arial", Font.BOLD, 16));

31 g.drawString("$" + String.valueOf(price), x + 10, y + 16);

32 }

33 **public** **int** getX()

34 {

35 **return** x;

36 }

37 **public** **int** getY()

38 {

39 **return** y;

40 }

41 **public** **int** getLength()

42 {

43 **return** length;

44 }

45 **public** Color getColor()

46 {

47 **return** color;

48 }

49 **public** **void** setX(**int** x)

50 {

51 **this**.x = x;

52 }

53 **public** **void** setY(**int** y)

54 {

55 **this**.y = y;

56 }

57 **public** **void** setLength(**int** length)

58 {

59 **this**.length = length;

60 }

61 **public** **void** setColor(Color color)

62 {

63 **this**.color = color;

64 }

65 }

**Figure 8.3 The class RowBoat.**