



## Chapter 10 More Practice (continued)

### Set 10-9 (pages 570–571)

Using whole units and the perimeter given, find the dimensions of the rectangle with the greatest area.

1.  $P = 4$   
 $\ell = 1; w = 1$
2.  $P = 10$   
 $\ell = 3; w = 2$
3.  $P = 78$   
 $\ell = 20; w = 19$
4.  $P = 66$   
 $\ell = 17; w = 16$

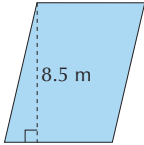
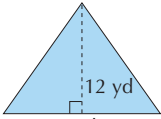
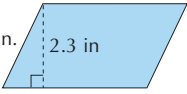
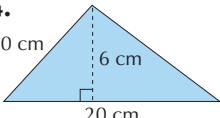
Using whole units and the area given, find the dimensions of the rectangle with the shortest perimeter.

5.  $A = 56$   
 $\ell = 8; w = 7$
6.  $A = 81$   
 $\ell = 9; w = 9$
7.  $A = 132$   
 $\ell = 12; w = 11$
8.  $A = 342$   
 $\ell = 19; w = 18$
9. A rectangle has a length of 12.5 in. and a width of  $\frac{3}{4}$  ft. What is its area?  $112\frac{1}{2}$  in.<sup>2</sup>

10. A rectangle has a length of 25 cm and a perimeter of 70 cm. Find its area.  
 $250$  cm<sup>2</sup>

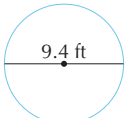
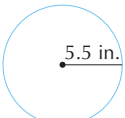
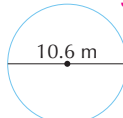
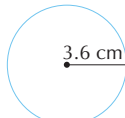
### Set 10-10 (pages 572–575)

Find the area of each parallelogram or triangle.

1.   
 $54.4$  m<sup>2</sup>
2.   
 $102$  yd<sup>2</sup>
3.   
 $20.7$  in.<sup>2</sup>
4.   
 $60$  cm<sup>2</sup>
5. A triangle with a base of 11 m has an area of 33 m<sup>2</sup>. Find its height.  
 $h = 6$  m

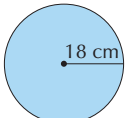
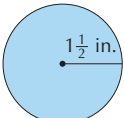
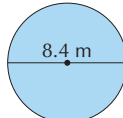
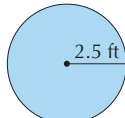
### Set 10-11 (pages 576–579)

Find each circumference to the nearest hundredth. Use 3.14 or  $\frac{22}{7}$  for  $\pi$ .

1.   
 $C \approx 29.52$  ft or  $29\frac{19}{35}$  ft
2.   
 $C \approx 34.54$  in. or  $34\frac{4}{7}$  in.
3.   
 $C \approx 33.28$  m or  $33\frac{11}{35}$  m
4.   
 $C \approx 22.61$  cm or  $22\frac{22}{35}$  cm
5. A circle has a circumference of 12.56 ft. Find its radius.  $2$  ft

### Set 10-12 (pages 580–581)

Find the area of each circle to the nearest whole number. Use 3.14 or  $\frac{22}{7}$  for  $\pi$ .

1.   
 $A \approx 1,018$  cm<sup>2</sup>
2.   
 $A \approx 7$  in.<sup>2</sup>
3.   
 $A \approx 55$  m<sup>2</sup>
4.   
 $A \approx 20$  ft<sup>2</sup>

5. A round game table has a diameter of 1 m. Will 1 square meter of plastic laminate cover the top of this table? Explain. **Yes; the table can be covered using  $0.785$  m<sup>2</sup>.**