## Extending Perimeter, Circumference, and Area

## ARE YOU READY? PAGE 585

п	6	G.		

9. 
$$x^2 = 3.1^2 + 5.8^2$$
  
 $x^2 = 43.25$   
 $x = \sqrt{43.25} \approx 6.6$  in.

10. 
$$10^2 = x^2 + 8^2$$
  
 $x^2 = 100 - 64$   
 $x^2 = 36$   
 $x = 6.00$ 

11. 
$$9.9^2 = x^2 + 4.3^2$$
  
 $x^2 = 98.01 - 18.49$   
 $x^2 = 79.52$   
 $x = \sqrt{79.52} \approx 8.9 \text{ m}$ 

12. 
$$\frac{5}{8}$$
 in.; 1.5 cm

15. 
$$A = \frac{1}{2}bh$$

$$2A = bh$$

$$b = \frac{2A}{h}$$

16. 
$$P = 2b + 2h$$

$$P = 2b = 2h$$

$$h = \frac{P - 2b}{2}$$

17. 
$$A = \frac{1}{2}(b_1 + b_2)h$$
 18.  $A = \frac{1}{2}d_1d_2$   
 $\frac{2A}{h} = b_1 + b_2$   $2A = d_1d_2$   
 $b_1 = \frac{2A}{h} - b_2$   $d_1 = \frac{2A}{d_2}$ 

B. 
$$A = \frac{1}{2}\sigma_1\sigma_2$$
  
 $2A = \sigma_1\sigma_2$   
 $\sigma_1 = \frac{2A}{\sigma_2}$ 

## CONNECTING GEOMETRY TO ALGEBRA: LITERAL EQUATIONS, PAGE 588

#### TRY THIS, PAGE 588

1. 
$$P = 2\ell + 2w$$
  
 $P - 2\ell = 2w$   
 $P - 2\ell = w$   
 $P - 2\ell = w$   
 $W = \frac{P - 2\ell}{2} = \frac{24 - 2(2)}{2} = 10 \text{ cm}$   
 $W = \frac{P - 2\ell}{2} = \frac{24 - 2(3)}{2} = 9 \text{ cm}$   
 $W = \frac{P - 2\ell}{2} = \frac{24 - 2(4)}{2} = 8 \text{ cm}$   
 $W = \frac{P - 2\ell}{2} = \frac{24 - 2(6)}{2} = 6 \text{ cm}$   
 $W = \frac{P - 2\ell}{2} = \frac{24 - 2(8)}{2} = 4 \text{ cm}$ 

2. 
$$a^2 + b^2 = c^2$$
  
 $a^2 = c^2 - b^2$   
 $a = \sqrt{c^2 - b^2}$   
 $a = \sqrt{c^2 - b^2} = \sqrt{65^2 - 16^2} = \sqrt{3969} = 63 \text{ ft}$   
 $a = \sqrt{c^2 - b^2} = \sqrt{65^2 - 25^2} = \sqrt{3600} = 60 \text{ ft}$   
 $a = \sqrt{c^2 - b^2} = \sqrt{65^2 - 33^2} = \sqrt{3136} = 56 \text{ ft}$   
 $a = \sqrt{c^2 - b^2} = \sqrt{65^2 - 30^2} = \sqrt{2704} = 52 \text{ ft}$   
3.  $P = a + b + c$ 

	b	c
112 - 48 - 35 = 29	48	35
112 - 36 - 36 - 40	36	36
112 - 14 - 50 = 48	14	50

### 9-1 DEVELOPING FORMULAS FOR TRIANGLES AND QUADRILATERALS, PAGES 589-597

### CHECK IT OUT! PAGES 590-592

112 - 4 + 6 + 6

a = 112 - b - c

1. 
$$A = bh$$
  
 $26 = 56b$   
 $b = 0.5 \text{ yd}$   
2.  $b^2 + h^2 = c^2$   
 $b^2 + 12^2 = 20^2$   
 $b^2 = 256 = 16^2$   
 $b = 16 \text{ m}$   
 $A = \frac{1}{2}bh$   
 $= \frac{1}{2}(16)(12) = 96 \text{ m}^2$ 

3. 
$$A = \frac{1}{2}d_1d_2$$
 4.  $P = 4 + 2\sqrt{2} + 2\sqrt{2}$   
 $12xy = \frac{1}{2}(3x)d_2$   $= \frac{4}{4} + 4\sqrt{2}$  cm  
 $24xy = (3x)d_2$   $A = \frac{1}{2}6h$   
 $d_2 = 8y$  m  $= \frac{1}{2}(4)(2) = 4$  cm<sup>2</sup>

### THINK AND DISCUSS, PAGE 593

- 1. Because 2 congruent copies of the triangle fit together to form a parallelogram with same base and height as the triangle
- The area of a rectangle is the base times the height. and area of a trapezoid is the average of the bases. times the height.

×			
쓮	2	-	

Area Formula	Shape(s)	Example(s)	
A BA	nectingle, paralleogram		
$A = \frac{1}{2}\Delta \alpha$	triangle	_	
$A = \{(b_1 + b_2) \in$	Impanid		
$A = \frac{1}{2} d(d)$	Witte, of constitutes	$\Diamond \Diamond$	

# **Geometry Chapter 9 Answer Key**

**D** Kirk

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