Extending Perimeter, Circumference, and Area

ARE YOU READY? PAGE 585

-		400			
ш	100	Section	40		

2. D

9.
$$x^2 = 3.1^2 + 5.8^2$$

 $x^2 = 43.25$
 $x = \sqrt{43.25} \approx 6.6$ in.

10.
$$10^2 = x^2 + 8^2$$

 $x^2 = 100 - 64$
 $x^2 = 36$
 $x = 6 \text{ cm}$

11.
$$9.9^2 = x^2 + 4.3^2$$

 $x^2 = 98.01 - 18.49$
 $x^2 = 79.52$
 $x = \sqrt{79.52} \approx 8.9 \text{ m}$

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.
$$A = \frac{1}{2}(b_1 + b_2)h$$

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

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.
$$P = 2\ell + 2w$$

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

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	- 0
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 = a + 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. $P = 4 + 2\sqrt{2} + 2\sqrt{2}$
 $12xy = \frac{1}{2}(3x)d_2$ $= (4 + 4\sqrt{2}) \text{ cm}$
 $24xy = (3x)d_2$ $A = \frac{1}{2}\delta h$
 $d_2 = 8y \text{ m}$ $= \frac{1}{2}(4)(2) = 4 \text{ cm}^2$

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	'n	

Area Formula	Shape(s)	Example(s)	
A AA	nectangle, paralleogram		
$A = \tfrac{1}{2}\Delta \alpha$	triangle	_	
$A=\{(b_1+b_2)\in$	Impanid		
$A = \frac{1}{2}A(A)$	Willia, etimentoja,	00	

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Michael Smith

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