

29.



$$\begin{aligned} \text{sum of interior angles} &= \angle 1 + \angle 2 + \angle 3 + \angle 4 + \angle 5 + \angle 6 \\ &= 180^\circ + 180^\circ \\ &= 360^\circ \end{aligned}$$

30. $S = 180(n - 2)$

(a) $n = \frac{S}{180} + 2$

(b) $n = \frac{3600^\circ}{180^\circ} + 2$
 $n = 22$

31. $A =$ area of left rectangle $+$ area of right rectangle

$A = ab + ac$

 $A =$ area of entire rectangle $A = a(b + c)$ which illustrates the distributive property.

32. $A = (a + b)(a + b) = (a + b)^2$

$A = ab + ab + a^2 + b^2$

$A = a^2 + 2ab + b^2$ which illustrates that the square of the sum is the square of the first term plus twice the product of the two terms plus the square of the second term.

33. The diagonal always divides the rhombus into two congruent triangles. All outer sides are always equal.

34. $\sqrt{16^2 + 12^2} = \sqrt{400} = 20$

35. (a) For the courtyard: $x = \frac{p}{4} = \frac{320}{4} = 80$. For the

outer edge of the walkway:

36.



$$\begin{aligned} p = 2l + 2(w - 18) &= 180 \text{ from which} \\ l &= 54 \text{ in.} \\ w = l - 18 &= 54 - 18 \\ w &= 36 \text{ in.} \end{aligned}$$

37.



$$\begin{aligned} w + 2.5 &= 4w - 4.7 \\ w &= 2.4 \text{ ft} \\ 4w &= 9.6 \text{ ft} \end{aligned}$$

38. $A = 1.80 \times 3.50 = 6.30 \text{ ft}^2$

39. $A = 2(\text{area of trapezoid} - \text{area of window})$

$$= 2 \left\{ \frac{1}{2} (28 + 16) \cdot 8 - 12(3.5) \right\}$$

$$= 268 \text{ ft}^2$$

1 gal = x

ht of trapezoid

320 ft² = 268 ft²

$x = 0.84 \text{ gal}$

$$\begin{aligned} &= \sqrt{10^2 - \left(\frac{28-16}{2} \right)^2} \\ &= 8.0 \text{ ft} \end{aligned}$$

40.

$w = 70 \text{ yd}$



$l = \sqrt{130^2 - 70^2}$

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