

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.



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

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 ft<sup>2</sup> = 268 ft<sup>2</sup>

$x = 0.84 \text{ gal}$

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

40.

$w = 70 \text{ yd}$



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

# Basic Technical Mathematics Explained

**R Sandford**



## **Basic Technical Mathematics Explained:**

## The Enigmatic Realm of **Basic Technical Mathematics Explained**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Basic Technical Mathematics Explained** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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