

Solving EquationsFinding the value of the variable is the solutionEquation \rightarrow plug in values \rightarrow work backwards
to solve

$$\boxed{A = 48} \quad ?$$

12

$$\downarrow A = LW$$

$$\frac{48}{12} = \frac{12W}{12} \Rightarrow W = 4$$

side

$A = 64$?

$$A = s^2$$

$$\sqrt{64} = \sqrt{s^2} \Rightarrow \text{side} = 8$$

b ? $A = 142$

$$A = hb$$

$$\frac{142}{20} = \frac{20b}{20} \Rightarrow b = 7.1$$

h ? $A = 9$

$$A = \frac{bh}{2}$$

$$2(9) = \left(\frac{7h}{2}\right)z$$

$$\frac{18}{7} = \frac{7h}{7} \Rightarrow h = 2.57 \quad \begin{cases} 9 = \frac{7h}{2} \\ \frac{9}{3.5} = \frac{3.5h}{3.5} \\ 2.57 = h \end{cases}$$

z ? $A = 132$

$$A = \frac{D(d)}{2} \Rightarrow 2(132) = \left(\frac{12d}{2}\right)z$$

$$\frac{264}{12} = \frac{12d}{12}$$

$$d = 22$$

h ? B $A = 45$

$$A = \frac{h(B+b)}{2}$$

$$45 = \frac{h(9.8 + 5.2)}{2}$$

$$2(45) = \left(\frac{15h}{2}\right)z$$

$$\frac{90}{15} = \frac{15h}{15}$$

$$h = 6$$

Attachments

beauty in nature.asf