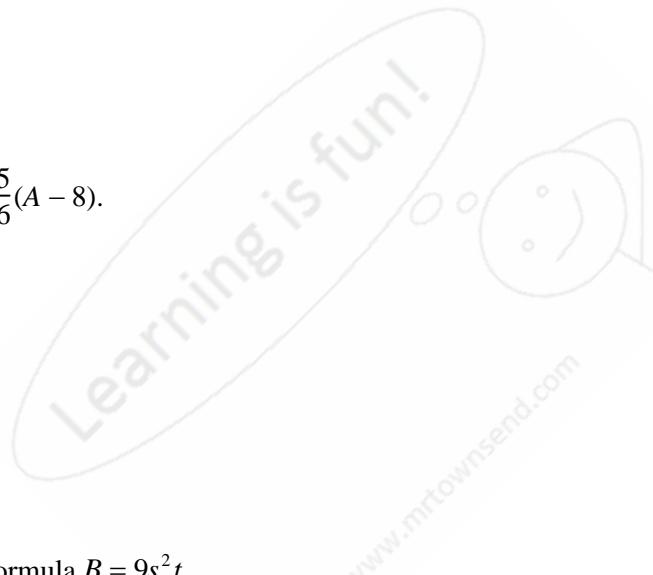


**Solve literal equations**

1. Solve for  $F$ :  $C = \frac{5}{9}(F - 32)$
2. Solve for  $C$ :  $F = \frac{9}{5}C + 32$
3. Solve for  $P$ :  $A = P + Prt$
4. Solve for  $u$ :  $-5u - w = u + 6w$
- $u = \frac{6w + u}{6}$
  - $u = \frac{-6w}{7}$
  - $u = -\frac{u + 7w}{5}$
  - $u = -\frac{7w}{6}$
5. Solve for  $A$ :  $B = \frac{5}{6}(A - 8)$ .
- $\frac{6B + 40}{5}$
  - $\frac{6B + 43}{6}$
  - $\frac{6B + 35}{6}$
  - $\frac{6B + 48}{5}$
6. Solve for  $t$  in the formula  $B = 9s^2 t$ .
- $t = 9s^2 - B$
  - $t = B - 9s^2$
  - $t = \frac{9s^2}{B}$
  - $t = \frac{B}{9s^2}$
7. Solve for  $v$  in the equation :  $t = \frac{u + v}{v}$



- \_\_\_\_ 8. Solve for  $c$  in the equation:  $a = \frac{b - c}{c}$
- a.  $c = -\frac{b}{a + 1}$   
b.  $c = \frac{b}{a + 1}$   
c.  $c = \frac{a + 1}{b}$   
d.  $c = -\frac{a + 1}{b}$
9. The formula  $S = 2lw + 2lh + 2wh$  gives the surface area of a rectangular prism with length  $l$ , width  $w$ , and height  $h$ . Solve the equation for  $h$ .
10. The formula  $S = 2lw + 2lh + 2wh$  gives the surface area of a rectangular prism with length  $l$ , width  $w$ , and height  $h$ . Find the value of  $h$  when  $l = 10$  in.,  $w = 7$  in., and  $S = 276$  in.<sup>2</sup>.



**Solve literal equations****Answer Section**

1.  $F = \frac{9}{5}C + 32$

2.  $C = \frac{5}{9}(F - 32)$

3.  $P = \frac{A}{1+rt}$

4. D

5. A

6. D

7.  $v = \frac{u}{t-1}$

8. B

9.  $h = \frac{S - 2lw}{2l + 2w}$

10. 4 in.

