Name: _____ **Class:** _____ **Date:** _____ **ID: A**

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 : $-5u - w = u + 6w$

a. $u = \frac{6w + u}{6}$

b. $u = \frac{-6w}{7}$

c. $u = -\frac{u + 7w}{5}$

d. $u = -\frac{7w}{6}$

____ 5. Solve for A : $B = \frac{5}{6}(A - 8)$.

a. $\frac{6B + 40}{5}$

b. $\frac{6B + 43}{6}$

c. $\frac{6B + 35}{6}$

d. $\frac{6B + 48}{5}$

____ 6. Solve for t in the formula $B = 9s^2t$.

a. $t = 9s^2 - B$

b. $t = B - 9s^2$

c. $t = \frac{9s^2}{B}$

d. $t = \frac{B}{9s^2}$

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 $S = 276$ $in.^2$.

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.