Secondary Math I Name_____

WS 1-4 - Literal Equations

Date_____ Period____

Solve each equation for the indicated variable.

1) $u = ka$, for a

2) $z = \frac{a}{m}$, for a

3) $u = k - a$, for a

4) $g = -\frac{5}{x}$, for x

5) $u = -\frac{3}{4x}$, for x

6) $2c + 4a = -1$, for a

7) $m - a = n - p$, for a

8) $u = y + k + x$, for x

9) $z = b + ma$, for a

10) $-4a + 3 = -\frac{v}{4w}$, for a

11) $3x = -4n + 2p$, for x

12) $-5a = -2r + 4d$, for a

13. The equation for converting Celcius into Farenheit is: $F = \frac{9}{5}C + 32$.	A. Convert 32° F into C.
	B. Convert 85° F into C.
	C. Convert 22° F into C.
	D. Convert -40° F into C.
14. The equation for the volume of a cylinder is: $V = \pi r^2 h$ where *r* is the radius of the circle, and *h* is the height of the cylinder.	A. Find the volume of a cylinder with radius of 3 and a height of 10.
	B. Find the height of a cylinder with a radius of 6 and a total volume of 226.2
	C. Find the height of a cylinder with a radius of 1.5 and a total volume of 42.4
	D. Find the height of a cylinder with a radius of 1 and a total volume of 47.1
15. The equation for simple interest is: $I = PRT$ where *I* is the interest gained, *P* is the principal, *R* is the interest rate, and *T* is the number of years.	A. How much interest is earned on $1000 at a rate of 4% for 6 years?
	B. If you earned $3 in interest on $400 with a rate of 5%, how long did it take?
	C. If you earned $2 in interest on $1400 with a rate of 2%, how long did it take?
	D. If you earned $15 in interest on $100 with a rate of 10%, how long did it take?