

Evaluating Formulas

Evaluate each of the following formulas for the indicated variable. Use $\pi = 3.14$.

1. $A = \pi r^2$	$r = 2$ Find A .
2. $C = 2\pi r$	$r = 10$ Find C .
3. $V = \pi r^2 h$	$r = 3, h = 5$ Find V .
4. $V = \frac{4}{3}\pi r^3$	$r = 3$ Find V .
5. $P = 2w + 2l$	$w = 10, l = 6$ Find P .
6. $V = lwh$	$l = 3, w = 5, h = 10$ Find V .
7. $F = ma$	$m = 100, a = 50$ Find F .
8. $F = \frac{9}{5}C + 32$	$C = 20$ Find F .

<p>9. $C = \frac{5}{9}(F - 32)$</p>	<p>$F = 32$ Find C.</p>
<p>10. $A = \frac{1}{2}bh$</p>	<p>$A = 10, b = 3$ Find A.</p>
<p>11. $A = lw$</p>	<p>$l = 3, w = 8$ Find A.</p>
<p>12. $S = 2lw + 2lh + 2wh$</p>	<p>$l = 3, w = 5, h = 4$ Find S.</p>
<p>13. $K = \frac{1}{2}mv^2$</p>	<p>$m = 2.5, v = 10$ Find K.</p>
<p>14. $S = 4\pi r^2$</p>	<p>$r = 2$ Find S.</p>
<p>15. $A = \frac{h}{2}(a + b)$</p>	<p>$h = 4, a = 1, b = 3$ Find A.</p>
<p>16. $C = \pi d$</p>	<p>$d = 100$ Find C.</p>
<p>17. $F = \frac{mv^2}{r}$</p>	<p>$m = 2, v = 5, r = 2$ Find F.</p>