

1. The formula for the area of a square with length  $x$  is  $A = x^2$ .
2. The formula for the area of a parallelogram with base  $x$  and height  $y$  is  $A = xy$ .
3. The formula for the area of a rectangle with length  $x$  and width  $y$  is  $A = xy$ .
4. The formula for the perimeter of a rectangle with length  $x$  and width  $y$  is  $P = 2x + 2y$ .
5. The formula for the volume of a rectangular solid of length  $a$ , width  $b$ , and height  $c$  is  $V = abc$ .
6. The formula for the area of a triangle with base  $b$  and height  $h$  is  $A = \frac{1}{2}bh$ .
7. The formula for the area of a trapezoid with bases  $B$  and  $b$  and height  $h$  is  $A = \frac{1}{2}(B + b)h$ .
8. The formula for the area of a circle with radius  $r$  is  $A = \pi r^2$ .
9. The formula for the circumference of a circle with radius  $r$  is  $C = 2\pi r$ .
10. The formula for the circumference of a circle with diameter  $d$  is  $C = \pi d$ .
11. The formula for the area of a circle with diameter  $d$  is  $A = \frac{\pi d^2}{4}$ .
12. The formula for the volume of a sphere with radius  $r$  is  $V = \frac{4}{3}\pi r^3$ .
13. The formula for the volume of a cylinder with radius  $r$  and height  $h$  is  $V = \pi r^2 h$ .
14. The formula for the volume of a cone with radius  $r$  and height  $h$  is  $V = \frac{1}{3}\pi r^2 h$ .
15. The formula for the distance  $d$  between two points  $(x_1, y_1)$  and  $(x_2, y_2)$  is
$$d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}.$$
16. The formula for the distance  $d$  traveled at a rate  $r$  in time  $t$  is  $d = rt$ .
17. The formula for the interest  $I$  earned by a principle  $P$  at a rate  $r$  for a time  $t$  is  $I = Prt$ .
18. The Distributive Property: If  $a$ ,  $b$ , and  $c$  are real numbers, then  $a(b + c) = ab + ac$ .
19. The Zero Factor Property: If  $a$  and  $b$  are real numbers and  $ab = 0$ , then  $a = 0$  or  $b = 0$ .
20. The Transitive Property: If  $a$ ,  $b$ , and  $c$  are real numbers such that  $a = b$  and  $b = c$ , then  $a = c$ .