

Symbols and Tables

SYMBOLS

=	equals
≈	approximately equals
<	less than
>	greater than
%	percent
π	pi (approximately 22/7 or 3.14)
r^2	r squared, or r · r
'	foot
"	inch
$\square$	right angle

PERIMETER

For any figure with straight sides, add the lengths of all the sides.

CIRCUMFERENCE

For a circle: $C = 2\pi r$

AREA

For a rectangle, square, or parallelogram:

$$A = bh \text{ (base times height)}$$

$$\text{For a triangle: } A = \frac{bh}{2}$$

$$\text{For a circle: } A = \pi r^2$$

$$\text{For a trapezoid: } A = \frac{b_1 + b_2}{2} \times h$$

(average of two bases times height)

EXPANDED NOTATION

$$1,452.5 = 1 \times 1,000 + 4 \times 100 + 5 \times 50 + 2 \times 1 + 5 \times 1/10$$

MEASUREMENT

3 teaspoons (tsp) = 1 tablespoon (Tbsp)
2 pints (pt) = 1 quart (qt)
8 pints (pt) = 1 gallon (gal)
4 quarts (qt) = 1 gallon (gal)
12 inches (in) = 1 foot (ft)
3 feet (ft) = 1 yard (yd)
5,280 feet (ft) = 1 mile (mi)
16 ounces (oz) = 1 pound (lb)
2,000 pounds (lb) = 1 ton
60 seconds = 1 minute
60 minutes = 1 hour
7 days = 1 week
365 days = 1 year (366 days in leap year)
52 weeks = 1 year
12 months = 1 year
100 years = 1 century
1 dozen = 12

DIVISIBILITY RULES

A number is divisible by:

- | | |
|----|---------------------------------------|
| 2 | if it ends in an even number. |
| 3 | if the digits add to a multiple of 3. |
| 5 | if it ends in 5 or 0. |
| 9 | if the digits add to a multiple of 9. |
| 10 | if it ends in 0. |

VOLUME

For a rectangular solid: $V = Bh$

(area of base times height)

For a cube: $V = Bh$