Architectural Sheet Metal Worker Current Level 2

ACRONYMS AND ABBREVIATIONS

TERM	MEANING
ASME	American Society of Mechanical Engineers
AWS	American Welding Society
CWB	Canadian Welding Bureau
psi	Pounds per square inch
SMACNA	Sheet Metal and Air Conditioning Contractors' National Association
UV	Ultraviolet

NOTE Do **not** bring this document to your exam.
These acronyms and abbreviations will be included in the exam reference materials.

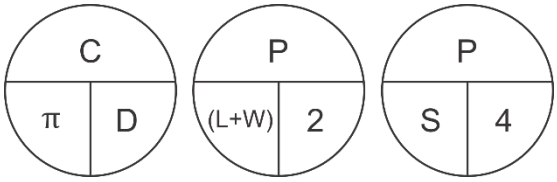
FORMULAS

12 in. = 1 ft.
3 ft. = 1 yd.
144 sq. in. = 1 sq. ft.

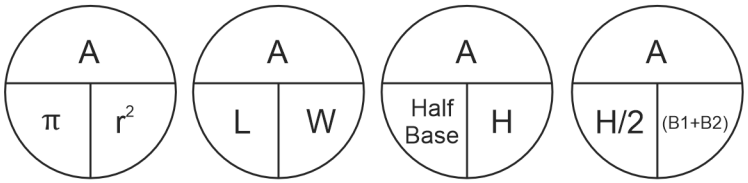
1,728 cu. in. = 1 cu. ft.
27 cu. ft. = 1 cu. yd.
25.4 mm = 1 in.
1 gal = 277 cu. in.

$a^2 + b^2 = c^2$
$c^2 - b^2 = a^2$

$C = (F - 32)/1.8$
$F = (C \times 1.8) + 32$

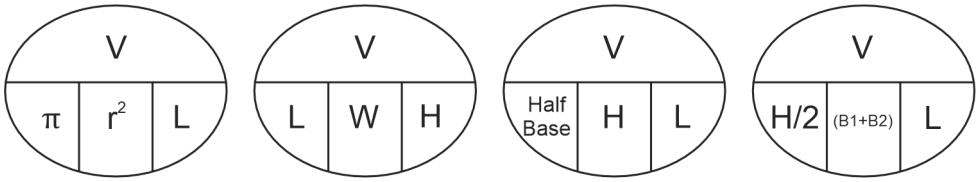


$P = (\pi D) + (2 \times W)$



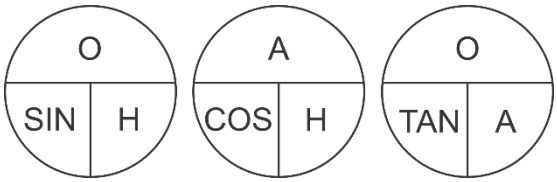
$A = S^2$

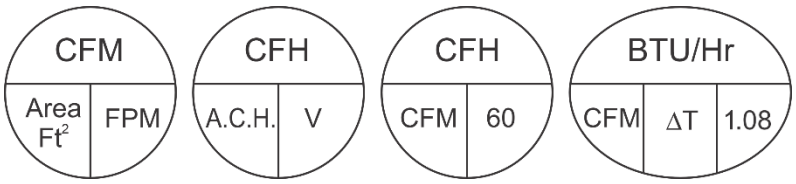
$A = (\pi r^2) + (D \times W)$



$V = S^3$

$V = [(\pi r^2) + (D \times W)] \times L$





$FPM = 4{,}005\sqrt{VP}$

$V.P. = (FPM/4{,}005)^2$

$T.P. = S.P. + V.P.$

$$W.L. = \frac{(4\sqrt{O^2 + L^2}) - L}{3}$$

$$M.A. = \frac{Degree\ of\ Elbow}{(\#\ pieces \times 2 - 2)}$$

$$A.H. = \frac{VH \times D}{(D - d)}$$

$$R.P. = \frac{O^2 + L^2}{(4 \times O)}$$

$$S.H. = MitreAngleTan \times CLR$$

$$S.L. = \sqrt{AH^2 + (D/2)^2}$$

$$V.S.O. = Seam\ Height \times (\#Pcs \times 2 - 2)$$

$$P.A. = \frac{180° \times Diameter}{Slant\ Length}$$

$$R.R. = MitreAngleTan \times Pipe\ Radius$$

$$C.L. = SIN(pattern\ angle/2) \times Slant\ Length \times 2$$

$$E.A. = (O/L)TAN^{-1} \times 2$$

$$A.L. = 1SIN \times radius \times \#\ of\ degrees$$

$$CFM/\ RPM/\ MOTOR\ \emptyset = \frac{NEW}{OLD} \times OLD$$

$$SP = \left(\frac{NEW}{OLD}\right)^2 \times OLD$$

$$BHP = \left(\frac{NEW}{OLD}\right)^3 \times OLD$$

NOTE Do **not** bring this document to your exam.
These formulas will be included in the exam reference materials.