

Practice Worksheet 4.1 – Math and Calculator Skills

Evaluate the following using your calculator. Express your answer with the proper number of significant digits.

a) $(386)^2$	b) $\sqrt{34}$	c) $\cos 45^\circ$
d) $1/698$	e) 0.7247π	f) $\sin^{-1} 0.325$
g) $\frac{37 \times 456 \times 23^2}{\sqrt{4.8 \times 10^{12}}}$	h) $\frac{(24 - 37) \times 3^2}{56.5}$	i) $\frac{1.00}{\sqrt{\frac{67.83}{x}}} = 23.8$

Rewrite the following equations for the variable requested

j) solve for V $D = \frac{m}{V}$	k) solve for I $P = V \times I$	l) solve for T_2 $\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$
m) solve for T $G^\theta = \Delta H^\theta - T \Delta S^\theta$	n) solve for T_1 $E = mc(T_2 - T_1)$	o) solve for R $PV = nRT$