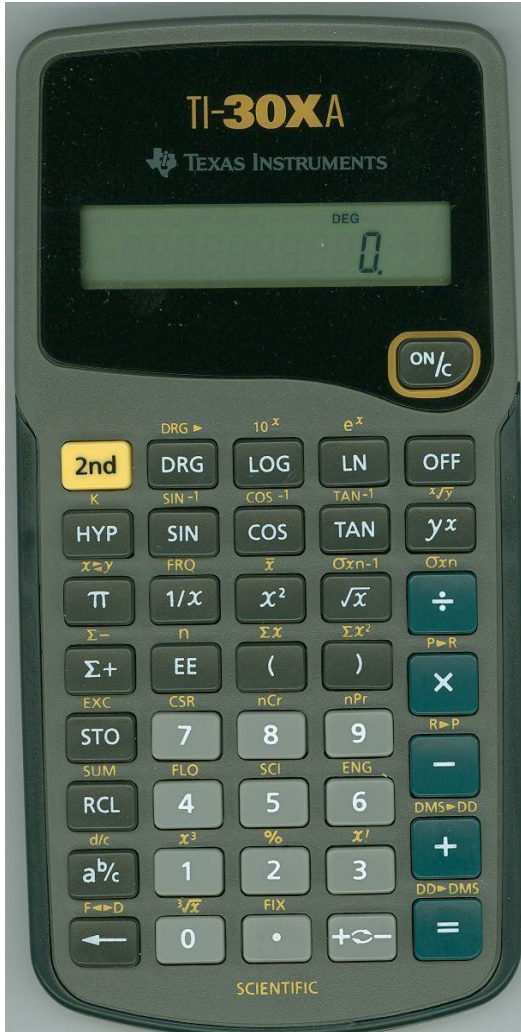


## IMPORTANT INFORMATION REGARDING CALCULATORS

Due to increasing security issues, candidates are not permitted to bring or use their own calculators at examinations. A calculator will be supplied by Saskatchewan Apprenticeship for use during examinations.



The model which will be supplied is the Texas Instruments TI-30XA. It is capable of the basic functions required by most trades, as well as the scientific functions required by some trades. Instructions on the use of this calculator may be found on the back of this sheet. These instructions may also be found on the back of the scrap paper which is provided at the examination facility.

**REMEMBER – ABSOLUTELY NO PERSONAL CALCULATORS, CELL PHONES, PDAS OR OTHER ELECTRONIC DEVICES ARE ALLOWED IN THE EXAMINATION FACILITY. THERE ARE NO EXCEPTIONS!**

# Calculator Instructions for TI – 30XA

**ON / C**

Press this key to turn the calculator on or to clear the display

**2nd**

This key is like a shift key and allows you to use the functions above each key in the pad

Percent:

To find 22% of 110, you can either change 22% to a decimal and then multiply. Or you can use the percent key (located above the digit “2”) as follows:  $110 \times 22 \text{ [2nd] } 2 =$  (Answer = 24.2)

Fractions:

To do calculations with fractions, use the  $\boxed{a \frac{b}{c}}$  function.

For example, to calculate  $\frac{2}{3} + 1 \frac{4}{7}$ , enter the following keystrokes:

$2 \boxed{a \frac{b}{c}} 3 + 1 \boxed{a \frac{b}{c}} 4 \boxed{a \frac{b}{c}} 7 =$  (Answer =  $2 \frac{5}{21}$ )

To change a fraction to a decimal, or a decimal to a fraction, use the  $\boxed{F \leftrightarrow D}$  function which is located above the  $\boxed{\leftarrow}$  key.

For example, to change  $\frac{4}{5}$  to a decimal, enter:

$4 \boxed{a \frac{b}{c}} 5 \text{ [2nd] } \boxed{\leftarrow}$  (Answer = 0.8)

To change a 0.625 to a fraction, enter:

$0.625 \text{ [2nd] } \boxed{\leftarrow}$  (Answer =  $\frac{5}{8}$ )

Powers:

To square a number use  $\boxed{x^2}$

To raise a number to a power other than 2, use the  $\boxed{y^x}$  function.

For example, to find  $5^3$ , enter  $5 \boxed{y^x} 3 =$  (Answer = 125)

Roots:

To find the square root of a number, use  $\boxed{\sqrt{x}}$

Angles:

To change an angle in degrees, minutes and seconds to decimal degrees, use the  $\boxed{DMS \rightarrow DD}$  function. For example to change  $45^\circ 37' 5''$  to decimal degrees, enter:  $45.3705 \text{ [2nd] } +$  (Answer =  $45.618^\circ$ )

To change an angle in decimal degrees to degrees, minutes and seconds, use the  $\boxed{DD \rightarrow DMS}$  function. For example, to change  $30.45^\circ$  to degrees, minutes, and seconds, enter:  $30.45 \text{ [2nd] } =$  (Answer =  $30^\circ 27'$ )

Trig:

To find the trig function of any angle, enter the angle first and then press the appropriate trig function.

For example to find  $\sin 53^\circ$ , enter  $53 \boxed{\sin}$  (Answer = 0.799)

To find the inverse trig function, enter the ratio first and then press the inverse trig function. For example, to find  $\sin^{-1}(0.45)$ , enter

$0.45 \text{ [2nd] } \boxed{\sin}$  (Answer =  $26.74^\circ$ )