



Task Title: Converting Between Imperial and Metric Measurements

OALCF Cover Sheet – Learner Copy

Learner Name: _____

Date Started: _____

Date Completed: _____

Successful Completion: Yes No

Goal Path: Employment Apprenticeship

Secondary School Post Secondary Independence

Task Description: The learner will measure objects and convert between Imperial and metric measurements.

Main Competency/Task Group/Level Indicator:

- Find and Use Information/Interpret documents/A2.1
- Understand and Use Numbers/Use measures/C3.2

Materials Required:

- Pen/pencil and paper and/or digital device
- Calculator or digital device with calculator function
- 3-inch bolt
- Measuring Tape with both metric and Imperial measurements (e.g. measuring tape used in sewing)
- Tape Measure (retractable metal type) with both metric and Imperial measurements (e.g. measuring type used in construction trades)

Learner Information

Machinists and other tradespeople who measure materials often need to convert between metric and Imperial measurements.

Scan the "Conversion Table".

Conversion Table

of Centimeters x 0.39 = Inches

of Inches x 2.54 = Centimeters

Work Sheet

Task 1: A machinist needs to measure the length of a bolt to make sure it does not show on the underside of a piece of furniture. Using the tape measure, measure the bolt provided twice, using metric and Imperial measurements.

Answer:

Length of bolt = _____ (metric)

Length of bolt = _____ (Imperial)

Task 2: Measure the height, width and length of a desk in the room you are currently sitting in. Using the tape measure, measure the desk twice using both forms of measurement (metric and Imperial).

Answer:

Length = _____ Width = _____ Height = _____ (metric)

Length = _____ Width = _____ Height = _____ (Imperial)

Task 3: Rafael is renting a pair of skis that are 209 cm long. Write the length of the skis as a decimal number of metres or as metres and centimetres.

Answer: Length in metres: _____

Task 4: Pablo measured his ski pole to be 1.15m long. Write this length as centimetres.

Answer: Length in centimetres: _____

Task 5: Mary is buying a gold chain. She needs to measure it to make sure it will fit around her neck and reach mid-chest. Using the

measuring tape, measure the length on yourself, using metric and Imperial measurements.

Answer:

Length of chain = _____ (metric)

Length of chain = _____ (Imperial)

Task 6: Julio has two lengths of copper tubing. One is 6ft. 3in. long and the other is 2ft. 10 in. long. What is the combined length of the copper tubing in inches? What would that measurement be in metric measure?

Answer:

Combined Length of tubing = _____ (Imperial)

Combined Length of tubing = _____ (metric)

Task 7: Stephanie used a metric ruler to measure two tables. The larger table is 73cm 2mm wide. The smaller table is 62cm 9mm wide. Stephanie needs to fit the two tables together and wants to find the combined width of the tables. What would that measurement be in metric measure?

Answer:

Width of tables = _____ (metric)

Width of tables = _____ (Imperial)