

**HANDOUTS:** Product Installation (2 pages)

Skill Builders: Conversion, Technical Drawings, Rounding & Percentages, Decimals & Fractions

**IN THE WORKPLACE:** Contractors, estimators, builders and tradespersons all rely on technical drawings for the information they need to safely and accurately build, repair or install a product such as a dishwasher as shown below.

Use the **Basic and Cutout Dimensions** technical drawings to complete the following tasks.

- The technical drawings include both metric and imperial measurements. Calculate the correct conversion to centimetres for the five measurements that are circled and lettered, on the drawing. Round to the nearest tenth. (1 inch = 2.54 cm)

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

D. \_\_\_\_\_

- If the dishwasher requires a half inch clearance on all 3 sides, and a half inch at the top, what are the dimensions of the largest dishwasher that will fit in the opening? Include width, depth, and height. Show your answers in imperial and metric.

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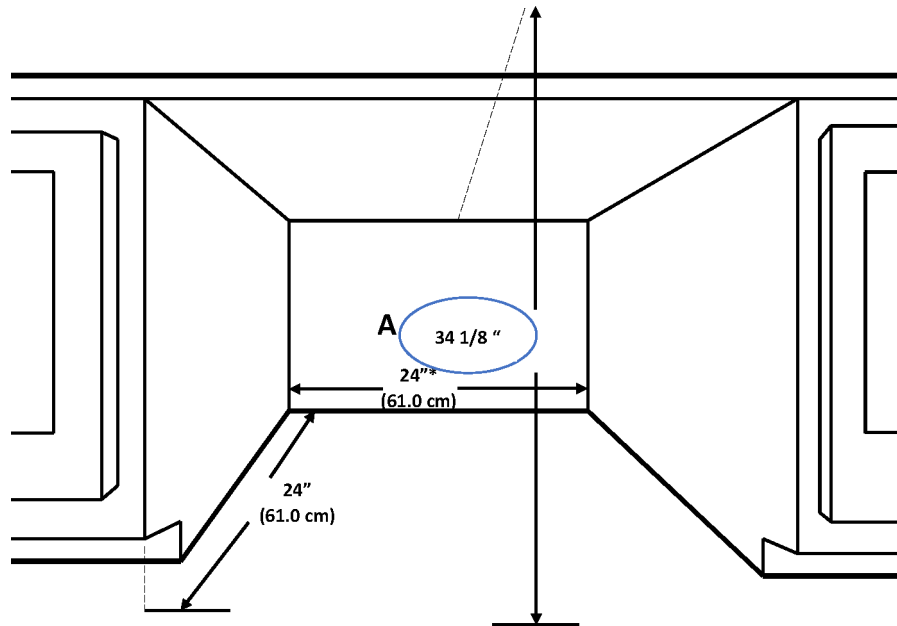
- Calculate the cubic volume of the opening in imperial. Use the Cutout Dimensions technical drawing.

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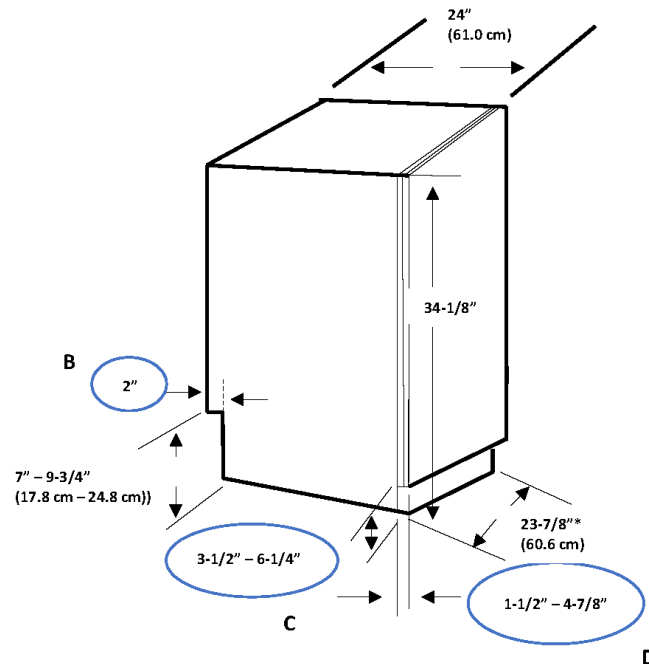
- Trim pieces are provided with the unit to fit the opening shown in the drawing. Without side trims, the unit width and depth is 59.7 cm. Without top trim, the unit height is 85.7 cm. Calculate the difference in volume between the unit with trim and without trim. Show your answer in imperial units. Round volume to the nearest whole number. (1 in.<sup>3</sup> = 16.39 cm<sup>3</sup>).

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CUTOUT DIMENSIONS



BASIC DIMENSIONS



Ref: Bow Valley College. (2020). Basic Dimensions. [image]. Calgary, Canada: Author.