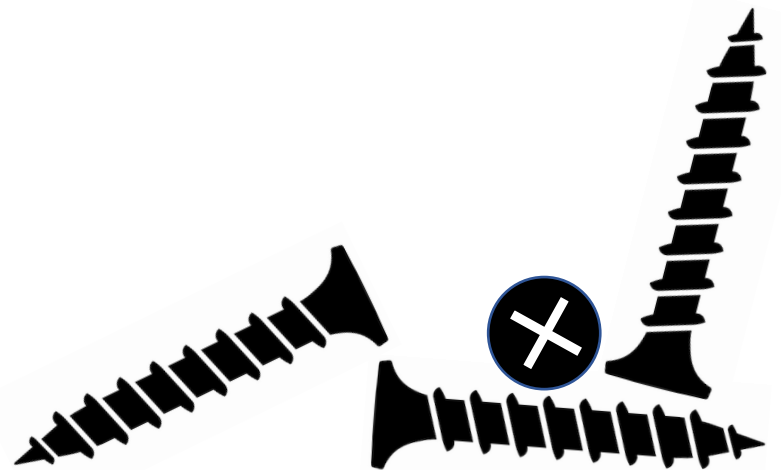
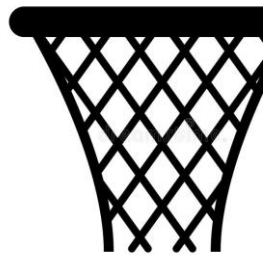


Basketball

Cabinetmaking



Basketball Game

- Provided Materials:**
- | | |
|-----------------------|-------------------|
| 1. Backboard and post | 7. Flipper dowel |
| 2. Springboard | 8. Basket |
| 3. Base | 9. Stickers |
| 4. Glue | 10. Rope and ball |
| 5. Screw | 11. Screwdriver |
| 6. Basket Peg | |

- Required Materials:**
1. Ruler
 2. Pencil

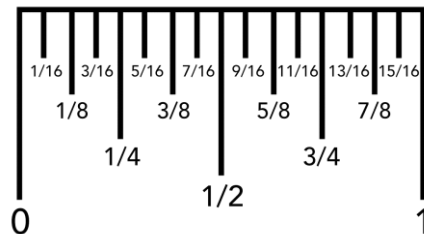


Although the Metric system is the official system of measurement in Canada, the Imperial system is still widely used in carpentry and cabinetmaking.

The United States still rely on the Imperial system. Because they are Canada's largest trading partner, many items we trade with them are measured with the Imperial system.

For example, lumber is sold by the foot and inch in Canada.

Fractional divisions of an inch:



To determine the Metric equivalent of an Imperial measurement, use the following formula:

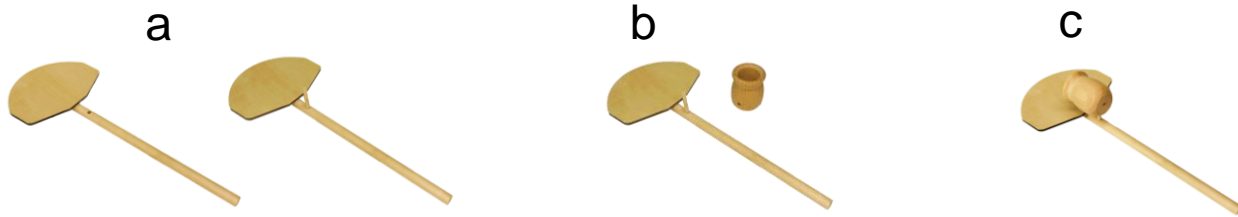
$$Y \times 25.4\text{mm} = Z$$

Where Y is the measurement in inches, and Z is the measurement in millimeters.

Assembly

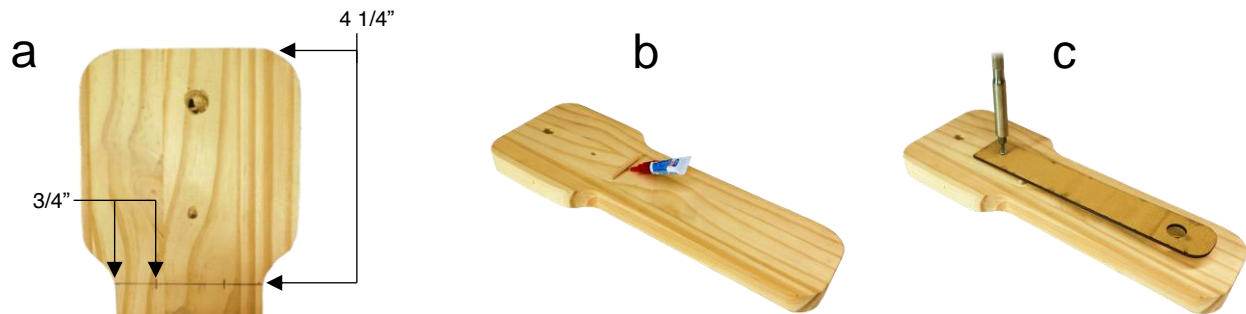
1. Attach the basket to the post.

- Insert the basket peg into the hole in the post.
- Place the hole in the basket over the peg. Push the basket onto the peg.
- Be sure it is in line with the post.



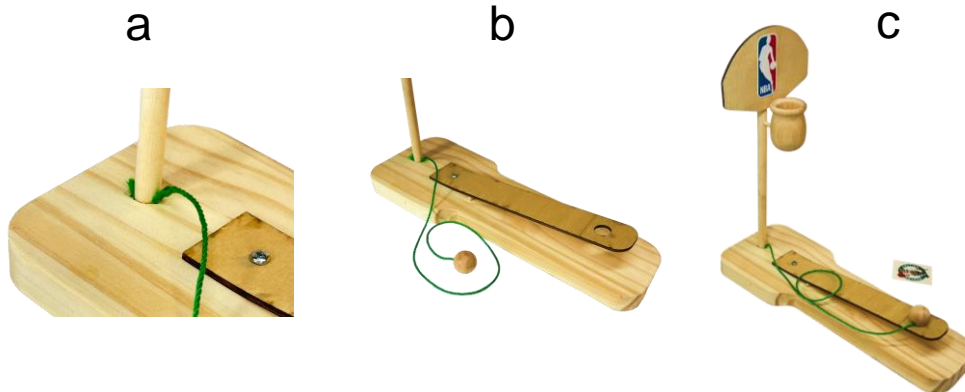
2. Attach the flipper to the base.

- From the wide end of the base, measure and mark a line at $4 \frac{1}{4}$ " down. Along this line, mark a dash $\frac{3}{4}$ " in from each side.
- Glue the dowel horizontally across the base between the dashes, ensuring it remains perfectly perpendicular to the base. This will act as the fulcrum for the springboard in the next step.
- Position the small hole in the springboard over the pilot hole in the base. Insert the screw using the screwdriver.




3. Attach the rope and ball and the post to the base.


- Glue the rope to the ball. Place the end of the rope on the large hole in the base. Push the post into the hole to secure the rope.
- Adhere the stickers to the backboard.
- Place the ball in the large hole in the springboard. Press down on the raised end of the flipper and let go to score a basket.



In cabinetmaking, measurements must be precise, so parts fit together seamlessly.

Geometry assists in measuring and marking straight lines and accurate angles.

 Follow this QR code to view the instructions in video form, or visit: www.youtube.com/@skillsalberta

 Find PDF versions of these instructions at: skillsalberta.com/resources/try-a-trade-take-out



Try-A-Trade® Takeout Program

Activity: Basketball

V3

Skill Area: Cabinetmaking

CTS Cluster: TMT

Basketball

Project

Students create a classic game of skill and accuracy while learning to fabricate a custom-made wood product.



Cabinetmaking

Schooling

- Four-year apprenticeship.
- Red Seal Journeyperson.
- Start early with the Registered Apprenticeship Program (RAP) or explore options available through Career and Technology Studies (CTS).

Jobs

- Build and repair custom or commercial fixtures and furniture made of wood or wood substitutes.
- Average salary: \$60,063.00/year
- Average wage: \$28.27/hour

More information:



Find your trade:

Or visit:

tradesecrets.alberta.ca



Apprenticeship
and Industry
Training

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