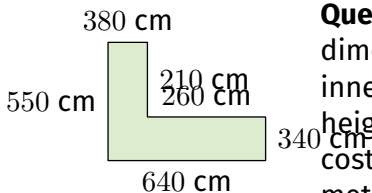


An L-Shaped Workshop Floor



Convert every dimension to metres before you calculate.



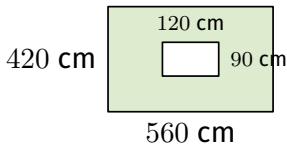
Question 1. An L-shaped workshop floor has these dimensions: left height 550 cm, top width 380 cm, inner drop 210 cm, inner horizontal 260 cm, right height 340 cm, bottom width 640 cm. Vinyl flooring costs \$34 per m^2 , sold only in whole square metres.

- (a) Convert all dimensions to metres, then calculate the total floor area.
- (b) Determine how many square metres of vinyl must be bought, and the total cost.

Carpeting a Room with a Hearth



The hearth is not carpeted – convert to metres, then subtract its area.



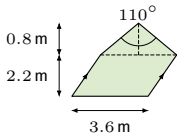
Question 2. A room measures 560 cm by 420 cm. A fireplace hearth measuring 120 cm by 90 cm sits inside and is not carpeted. Carpet costs \$28 per m^2 , and installation is a flat \$150.

- (a) Convert all dimensions to metres, then calculate the area of carpet needed.
- (b) Calculate the cost of the carpet.
- (c) Find the total cost of the project, including installation.

Cladding a Carport Wall



Split the wall into the parallelogram section and the triangular gable.



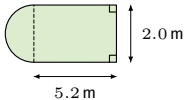
Question 3. A carport's side wall is a parallelogram 3.6 m wide and 2.2 m tall, with a triangular gable 0.8 m tall above it. Cladding sheets cover 2.5 m^2 each and cost \$65, sold only as whole sheets.

- (a) Calculate the total area of the wall.
- (b) Determine how many sheets are needed, and the total cost.

Paving a Garden Path



Give the area and perimeter correct to 2 decimal places.



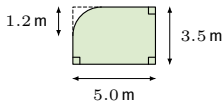
Question 4. A garden path shaped like a rectangle with a semicircular end is 5.2 m long (straight section) and 2.0 m wide. Paving costs \$58 per m^2 , and edging is sold in 8 m rolls at \$65 each.

- (a) Calculate the area of the path, then the cost of the paving.
- (b) Calculate the perimeter, then determine how many rolls of edging are needed and the total cost.

Paving a Rounded-Corner Patio



Give the area correct to 2 decimal places.



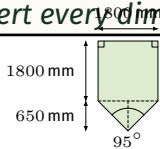
Question 5. A rectangular patio measures 5.0 m by 3.5 m, with one corner rounded off with a 1.2 m radius. Paving bags cover 0.9 m^2 each and cost \$14.50, sold only as whole bags.

- (a) Calculate the area of the patio.
- (b) Determine how many bags are needed, and the total cost.

Cladding a Kennel Gable



Convert every dimension to metres before you calculate.



Question 6. A dog kennel's gable end is a 1800 mm square with a triangular roof section 650 mm tall above it. Cladding costs \$48 per m^2 , plus a \$25 cutting fee.

- (a) Convert the dimensions to metres, then calculate the total area of the gable end.
- (b) Find the total cost, including the cutting fee.