

Painting a Wall



Read the scenario, then answer parts (a)-(c) in order – each part uses your answer from the one before.

2.4 m



5.5 m

Question 1. A bedroom wall measures 5.5 m by 2.4 m and needs one coat of paint.

- (a)** Calculate the area of the wall.
- (b)** One tin of paint covers 10 m^2 . How many tins are needed?
- (c)** Each tin costs \$69. Find the total cost of the paint.

Fencing a Garden



Read the scenario, then answer parts (a)-(d) in order.

3.2 m



6.5 m

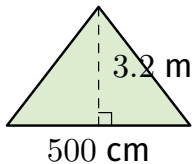
Question 2. A rectangular vegetable garden measures 6.5 m by 3.2 m. It will be fenced on all four sides at \$18 per metre, with a 1 m wide gate (bought separately, no fencing needed across it) fitted in one side.

- (a)** Calculate the perimeter of the garden.
- (b)** Find the length of fencing actually needed, once the 1 m gate gap is removed.
- (c)** Calculate the cost of the fencing.
- (d)** The gate costs \$85. Find the total cost of the fencing project.

Mulching a Garden Bed



Convert the base to metres before you calculate the area.



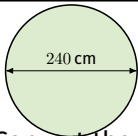
Question 3. A triangular garden bed has a base of 500 cm and a perpendicular height of 3.2 m. It will be covered with mulch costing \$6.50 per m^2 .

- (a) Convert the base length to metres.
- (b) Calculate the area of the garden bed.
- (c) Calculate the cost of the mulch.

Edging a Circular Pond



Convert the diameter to metres first. Give circumference and area correct to 2 decimal places.



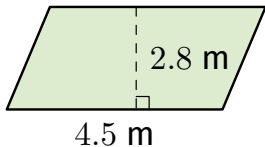
Question 4. A circular garden pond has a diameter of 240 cm. Edging rope costs \$4.20 per metre, and a pond liner costs \$18 per m^2 .

- (a) Convert the diameter to metres, then find the radius.
- (b) Calculate the circumference of the pond.
- (c) Calculate the cost of the edging rope.
- (d) Calculate the area of the pond.
- (e) Calculate the cost of the pond liner.

Paving a Courtyard Section



Read the scenario, then answer parts (a)-(c) in order.



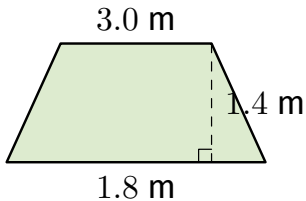
Question 5. A parallelogram-shaped section of a courtyard has a base of 4.5 m and a perpendicular height of 2.8 m. Paving costs \$85 per m^2 , plus a \$50 flat delivery fee.

- (a) Calculate the area of the paved section.
- (b) Calculate the cost of the paving (before delivery).
- (c) Find the total cost, including delivery.

Building a Raised Garden Bed



The perimeter uses all four sides; the area uses the height between the parallel sides.



Question 6. A trapezium-shaped raised garden bed has parallel sides of 3.0 m and 1.8 m, two equal 1.6 m sloped sides, and a perpendicular height of 1.4 m between the parallel sides. Timber edging costs \$22 per metre, and soil costs \$28 per m^2 of bed.

- (a) Calculate the perimeter of the bed and the cost of the timber edging.
- (b) Calculate the area of the bed and the cost of the soil.
- (c) Find the total cost of the project.