

1. Painting a Triangular Gable End (6 marks)

A homeowner is repainting a triangular gable end of their house.

The base of the triangle is 8m, and the height is 4m.

Paint costs £9 per m² but is currently reduced by 15% in a sale.

Determine the final cost after the 15% discount.

crackmaths



2. Painting a Triangular Gable End (6 marks)

A homeowner is repainting a triangular gable end of their house.

The base of the triangle is 6.5m, and the height is 3m.

Paint costs £8.25 per m² but is currently reduced by 20% in a sale.

Determine the final cost after the 20% discount.

crackmaths



3. Laying Turf in a Circular Garden (6 marks)

A gardener is laying turf in a circular garden.

- •The final cost, after a 12% discount, was £343.20.
- •Turf costs £4 per m² before the discount.

What is the diameter of the garden (use $\pi = 3.14$).

Give your answer to the nearest meter.

crackmaths



4. Laying Turf in a Circular Garden (6 marks)

A gardener is laying turf in a circular garden.

- •The final cost, after a 25% discount, was £301.44.
- Turf costs £8 per m² before the discount.

What is the diameter of the garden (use $\pi = 3.14$).

Give your answer to the nearest meter.

crackmaths



5. Tiling a Rectangular Kitchen Floor (6 marks)

A kitchen floor measures $4m \times 3.5m$, and the owner is getting it tiled.

The tiler originally charged £20 per m², but due to rising costs, the price has increased by 8%.

How much have they more has the owner had to spend due to the price increase?

crackmaths



6

6. Tiling a Rectangular Kitchen Floor (6 marks)

A kitchen floor measures $2.7m \times 1.8m$, and the owner is getting it tiled.

The tiler originally charged £17 per m², but due to rising costs, the price has increased by 6.5%.

How much have they more has the owner had to spend due to the price increase?

crackmaths



7. Replacing Glass in a Triangular Window (6 marks)

A large triangular window has a base of 2.5m and a height of 1.8m.

- •The window replacement cost is £55 per m².
- •The homeowner also replaces a rectangular window

measuring $1.2m \times 1.5m$.

Express the cost of the triangular window as a percentage of the total cost.

crackmaths



8

8. Replacing Glass in a Triangular Window (6 marks)

A small triangular window has a base of 60cm and a height of 95cm.

- •The window replacement cost is £78 per m².
- •The homeowner also replaces a rectangular window

measuring 1.4m × 2.2m

Express the cost of the triangular window as a percentage of the total cost.

crackmaths



9

9. Fencing a Rectangular Garden (6 marks)

A square garden measures 8m × 8m.

The Owner puts a 1.6 meter high fencing on three of the sides.

The final price paid after a 10% discount was £345.60

What was the difference in the cost of the fencing per m² before and after the discount?

crackmaths



10

10. Fencing a Rectangular Garden (6 marks)

A square garden measures $7.5m \times 7.5m$.

The Owner puts 40cm high fencing on three of the sides.

The final price paid after a 20% discount was £225

What was the difference in the cost of the fencing per m² before and after the discount?

crackmaths



11. Painting a Circular Ceiling (6 marks)

A restaurant is painting a circular ceiling with a radius of 5m. (Use $\pi = 3.14$)

The paint used costs £6 per m². The supplier has increased the price by 20% due to high demand.

Determine the cost after the 20% price increase.

crackmaths



12

12. Painting a Circular Ceiling (6 marks)

A restaurant is painting a circular ceiling with a diameter of 7.2m. (Use $\pi = 3.14$)

The paint used costs £8 per m². The supplier has increased the price by 12.3% due to high demand.

Determine the cost after the 12.3% price increase.

crackmaths



13

13. Building a Triangular Shed Roof (6 marks)

A shed roof requires of two identical triangular panels, each with a base of 4m and a height of 2.5m.

- •Roofing material costs £15 per m².
- The shed also requires 2 rectangular roof panels

measuring 2.4m × 3m.

Express the cost of the rectangular panels as a percentage of the total cost.

crackmaths



14

14. Building a Triangular Shed Roof (6 marks)

A shed roof requires of two identical triangular panels, each with a base of 3m and a height of 2m.

- •Roofing material costs £12 per m².
- The shed also requires 2 rectangular roof panels

measuring 2.5m × 3.2m.

Express the cost of the rectangular panels as a percentage of the total cost.

crackmaths