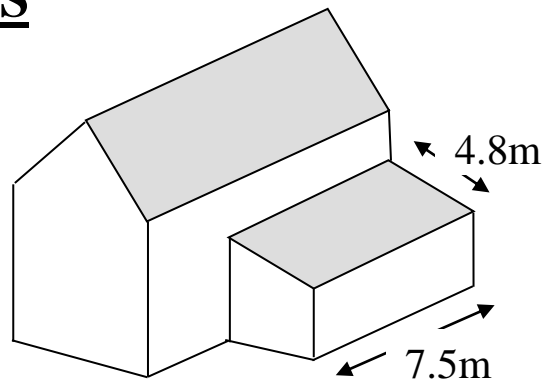


COSTINGS

Answers to this sheet can also be found in the Presentation Costings.

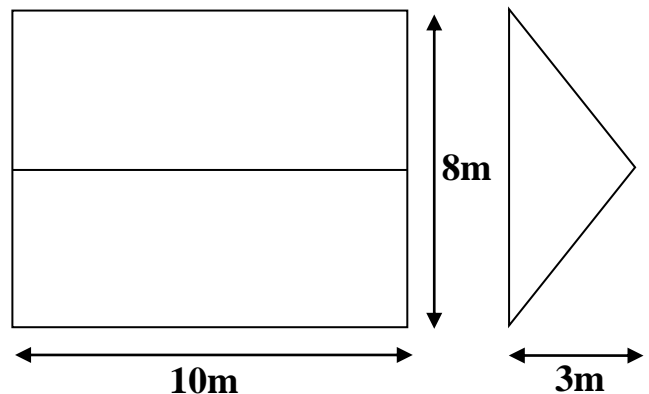


Q. 1 Calculate the cost of slating the lean-to roof shown if the cost of slating is € 30.68 per m²

Q. 2 A damaged door is to be replaced including new hinges and lock. If the door costs € 35.80, the hinges and lock € 5.25 and the job takes a joiner 3 hours @ € 17.30 per hour, calculate the cost of the work allowing 25% for overheads and profit.

Q. 3 The given drawing shows the plan and elevation of a simple roof. Using the rates below, which include the cost of materials and labour only, estimate the cost of felting, battening and tiling the roof. Add 25% for profit and a further 5% for overheads.

- Roofing felt = € 7.10 per m²
- Tiling Slopes = € 16.88 per m² (including Battens)
- Ridge tiling = € 4.16 per m run



Q. 4 A room is 4.5m by 3.6m and 2.7m high. It has two doors (each 2200 x 1000mm including architrave) and one window (2400 x 1200mm). Estimate the cost of decoration as follows:

- Ceiling to be painted with 2 coats emulsion @ € 5.40 per m²
 - Walls to be pre-primed and painted 2 coats @ € 6.00 per m²
 - Doors (room side only) painted 1 coat @ € 7.50 per m²
- Allow 25% for overheads and profit.

(Prices shown are per m² per coat)

Q. 5 Calculate the cost of the timber at € 187.10 per m³ for a job requiring the following:

- Twenty four 3.6m lengths of 50mm x 180mm
- 14.4m run of 50mm x 75mm
- 3.6m run of 75mm x 200mm

Allow 23% for VAT on your answer.

COSTINGS (Answers)

Q. 1 $7.5 \times 4.8 \times \text{€ } 30.68 = \text{€ } 1104.48$

Q. 2 Total Cost:

Door	€ 35.80	
Hinges	€ 5.25	
Labour (3 x €17.30)	<u>€ 51.90</u>	
	€ 92.95 x 1.25	= € 116.18

Q. 3 First get rafter length $a^2 + b^2 = c^2$
 $3^2 + 4^2 = x^2$
 $9 + 16 = x^2$
 $\sqrt{25} = x = 5$
 $\Rightarrow \text{Area} = 5 \times 10 \times 2 = 100\text{m}^2$

Cost:

Roofing Felt	100 x € 7.10	=	€ 710.00
Tiling	100 x € 16.88	=	€ 1688.00
Ridge	10 x € 4.16	=	<u>€ 41.60</u>
			€ 2439.60

$\text{€}2439.60 \times 1.25(\text{profit}) = 3049.5 \times 1.05(\text{overheads}) = \text{€ } 3,201.98$

Q. 4 Ceiling = $4.5 \times 3.6 = 16.2\text{m} \times 2(\text{coats}) \times \text{€ } 5.40 = \text{€ } 174.96$

Walls = $2 \times 4.5 \times 2.7 = 24.3$
 $2 \times 3.6 \times 2.7 = \underline{19.44} = 43.74\text{m}^2$

Less: Doors $2 \times 2.2 \times 1.0 = 4.4$
Window $2.4 \times 1.2 = \underline{2.88} = \underline{7.28\text{m}^2}$
 $= 36.46\text{m}^2 \times 2 \times \text{€ } 6 = \text{€ } 437.52$

Doors = $2.2 \times 1.0 \times 2 = 4.4 \text{m}^2 \times \text{€ } 7.50 = \underline{\text{€ } 33.00}$
 $\text{€ } 645.48$

Total Cost (including overheads) = $\text{€ } 645.48 \times 1.25 = \text{€ } 806.85$

Q. 5 24 of $3.6 \times 0.05 \times 0.18 = 0.7776$
 $14.4 \times 0.05 \times 0.075 = 0.0540$
 $3.6 \times 0.075 \times 0.2 = \underline{0.0540}$
 $0.8856 \times 187.10 = 165.70$

(Plus VAT) $165.70 \times 1.23 = \text{€ } 203.81$