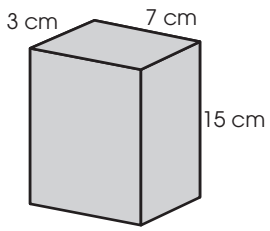
Math

- **surface area of prisms**

A. Check the one that finds the surface area of each prism. Then find the surface area.

1.

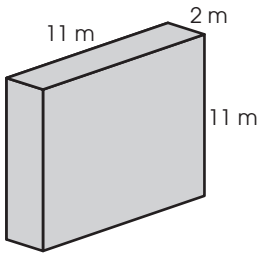


(A) (3 x 7 + 3 x 15 + 7 x 15) x 2

(B) (3 x 7 + 7 x 15) x 2

Surface area: _____

2.



(A) (2 x 11 + 11 x 11) x 2

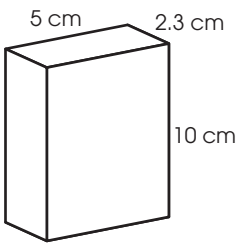
(B) 11 x 11 x 2 + 2 x 11 x 4

Surface area: _____

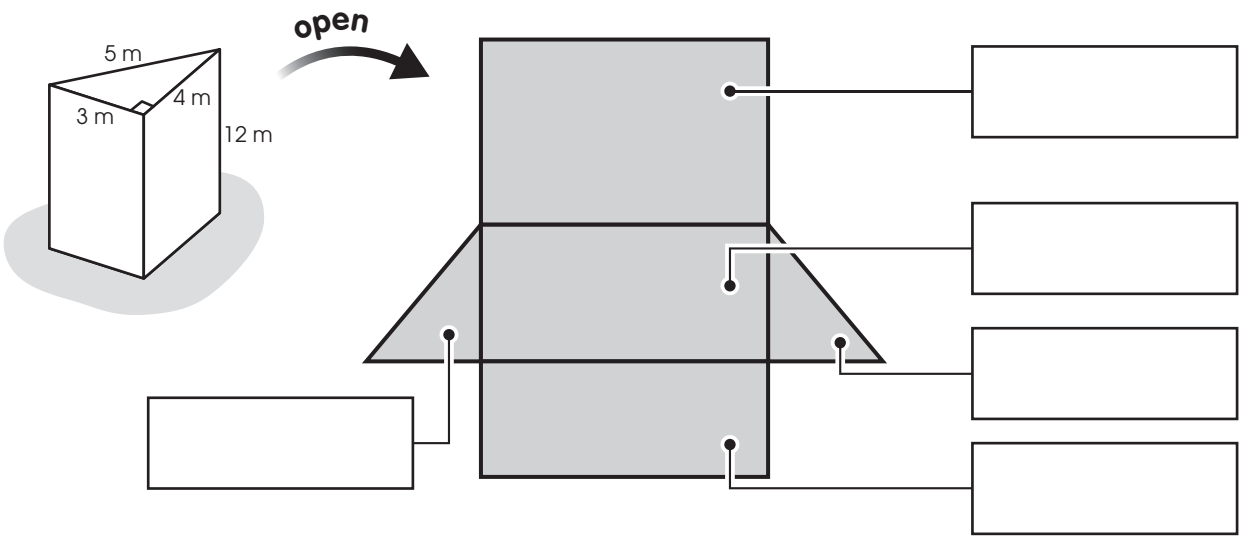
B. Find the surface area of each rectangular prism.

1. Surface area:

2. Surface area:



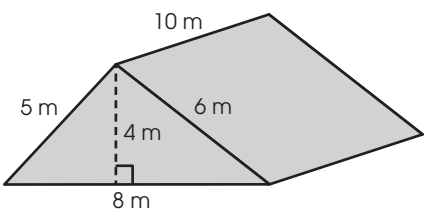
C. Look at the net of the triangular prism. Then record the area of each face and find the surface area.



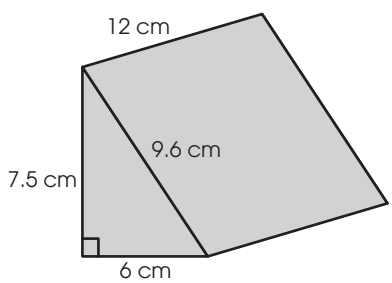
The surface area of the triangular prism is _____ .

D. Find the surface area of each triangular prism.

1. Surface area:



2. Surface area:



- surface area of prisms

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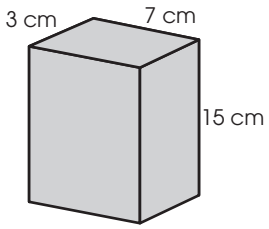
1.

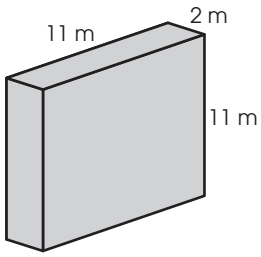


✔ A (3 x 7 + 3 x 15 + 7 x 15) x 2

B (3 x 7 + 7 x 15) x 2

Surface area: 342 cm^2

2.



A (2 x 11 + 11 x 11) x 2

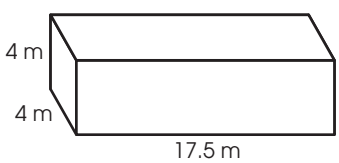
✔ B 11 x 11 x 2 + 2 x 11 x 4

Surface area: 330 m^2

B. Find the surface area of each rectangular prism.

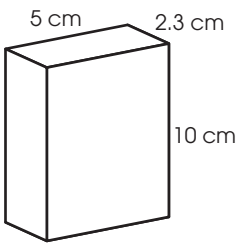
1. Surface area:

4 x 4 x 2 + 4 x 17.5 x 4
= 32 + 280
= 312 (m^2)

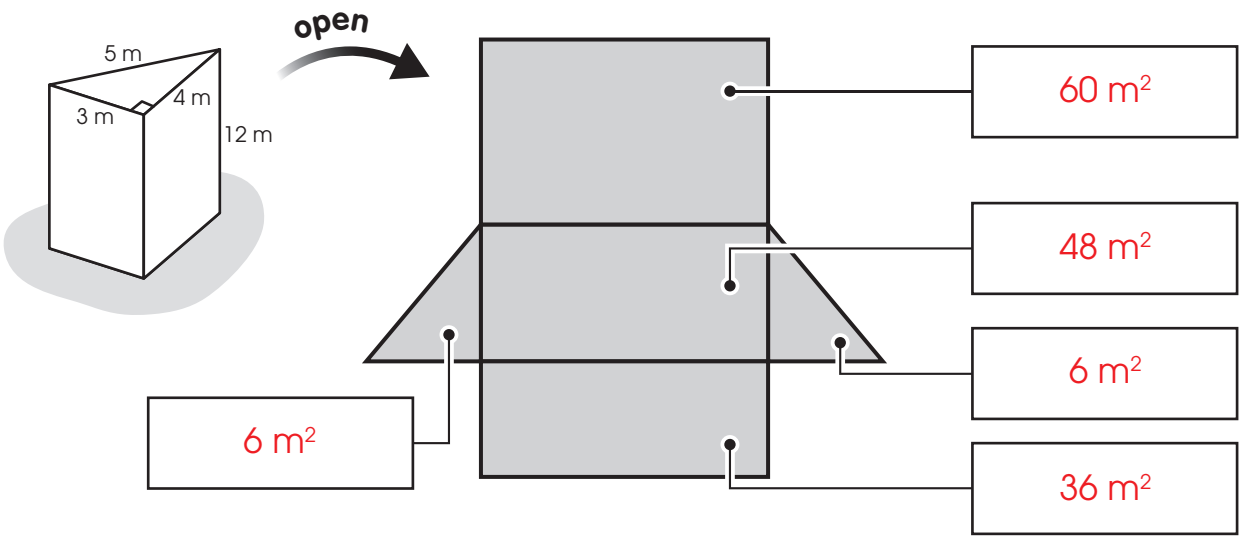


2. Surface area:

(5 x 2.3 + 2.3 x 10 + 5 x 10) x 2
= (11.5 + 23 + 50) x 2
= 84.5 x 2
= 169 (cm^2)



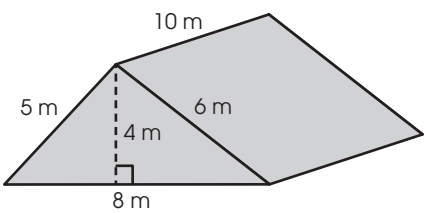
C. Look at the net of the triangular prism. Then record the area of each face and find the surface area.



The surface area of the triangular prism is 156 m² .

D. Find the surface area of each triangular prism.

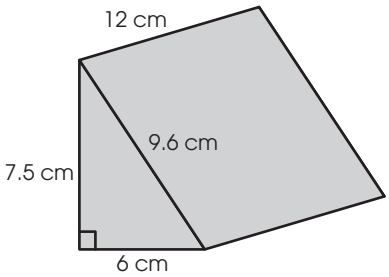
1.



Surface area:

8 x 4 ÷ 2 x 2 + 6 x 10 + 5 x 10 + 8 x 10
= 32 + 60 + 50 + 80
= 222 (m²)

2.



Surface area:

6 x 7.5 ÷ 2 x 2 + 9.6 x 12 + 6 x 12 + 7.5 x 12
= 45 + 115.2 + 72 + 90
= 322.2 (cm²)