

The Secret of Finding the Surface Area and Lateral Area of A Prism (Geometry11 4 Part I)

Lesson 062 | Geometry | Prism lateral and surface area

<https://www.youtube.com/watch?v=N5fauQHMxOA>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

A right rectangular prism has base 3 by 6 and height 10. Find lateral area and total surface area.

02

A right rectangular prism has base 13 by 5 and height 6. Find lateral area and total surface area.

03

A right rectangular prism has base 13 by 6 and height 3. Find lateral area and total surface area.

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04

A right rectangular prism has base 3 by 9 and height 5. Find lateral area and total surface area.

05

A right rectangular prism has base 4 by 6 and height 13. Find lateral area and total surface area.

06

A right rectangular prism has base 4 by 6 and height 9. Find lateral area and total surface area.

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01

A right rectangular prism has base 3 by 6 and height 10. Find lateral area and total surface area.

Base perimeter $2(3+6)=18$. Lateral area $\text{perimeter} \cdot \text{height}=180$. Add two bases: $\text{total}=216$.

02

A right rectangular prism has base 13 by 5 and height 6. Find lateral area and total surface area.

Base perimeter $2(13+5)=36$. Lateral area $\text{perimeter} \cdot \text{height}=216$. Add two bases: $\text{total}=346$.

03

A right rectangular prism has base 13 by 6 and height 3. Find lateral area and total surface area.

Base perimeter $2(13+6)=38$. Lateral area $\text{perimeter} \cdot \text{height}=114$. Add two bases: $\text{total}=270$.

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04

A right rectangular prism has base 3 by 9 and height 5. Find lateral area and total surface area.

Base perimeter $2(3+9)=24$. Lateral area $\text{perimeter} \cdot \text{height}=120$. Add two bases: $\text{total}=174$.

05

A right rectangular prism has base 4 by 6 and height 13. Find lateral area and total surface area.

Base perimeter $2(4+6)=20$. Lateral area $\text{perimeter} \cdot \text{height}=260$. Add two bases: $\text{total}=308$.

06

A right rectangular prism has base 4 by 6 and height 9. Find lateral area and total surface area.

Base perimeter $2(4+6)=20$. Lateral area $\text{perimeter} \cdot \text{height}=180$. Add two bases: $\text{total}=228$.