

2021 High School Geometry Volume of Prisms and Cylinder (Big Idea Geometry11 7, 11 ...

Lesson 065 | Geometry | Volume and surface area

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

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

A right circular cylinder has radius 12 and height 28. Find lateral area, total surface area, and volume.

02

A right circular cylinder has radius 4 and height 70. Find lateral area, total surface area, and volume.

03

A right circular cylinder has radius 7 and height 63. Find lateral area, total surface area, and volume.

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04

A right circular cylinder has radius 11 and height 15. Find lateral area, total surface area, and volume.

05

A right circular cylinder has radius 13 and height 12. Find lateral area, total surface area, and volume.

06

A right circular cylinder has radius 12 and height 77. Find lateral area, total surface area, and volume.

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01

A right circular cylinder has radius 12 and height 28. Find lateral area, total surface area, and volume.

Lateral area $2\pi rh = 672\pi$. Total area $2\pi rh + 2\pi r^2 = 960\pi$. Volume $\pi r^2 h = 4032\pi$. Use square units for areas and cubic units for volume.

02

A right circular cylinder has radius 4 and height 70. Find lateral area, total surface area, and volume.

Lateral area $2\pi rh = 560\pi$. Total area $2\pi rh + 2\pi r^2 = 592\pi$. Volume $\pi r^2 h = 1120\pi$. Use square units for areas and cubic units for volume.

03

A right circular cylinder has radius 7 and height 63. Find lateral area, total surface area, and volume.

Lateral area $2\pi rh = 882\pi$. Total area $2\pi rh + 2\pi r^2 = 980\pi$. Volume $\pi r^2 h = 3087\pi$. Use square units for areas and cubic units for volume.

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04

A right circular cylinder has radius 11 and height 15. Find lateral area, total surface area, and volume.

Lateral area $2\pi rh = 330\pi$. Total area $2\pi rh + 2\pi r^2 = 572\pi$. Volume $\pi r^2 h = 1815\pi$. Use square units for areas and cubic units for volume.

05

A right circular cylinder has radius 13 and height 12. Find lateral area, total surface area, and volume.

Lateral area $2\pi rh = 312\pi$. Total area $2\pi rh + 2\pi r^2 = 650\pi$. Volume $\pi r^2 h = 2028\pi$. Use square units for areas and cubic units for volume.

06

A right circular cylinder has radius 12 and height 77. Find lateral area, total surface area, and volume.

Lateral area $2\pi rh = 1848\pi$. Total area $2\pi rh + 2\pi r^2 = 2136\pi$. Volume $\pi r^2 h = 11088\pi$. Use square units for areas and cubic units for volume.