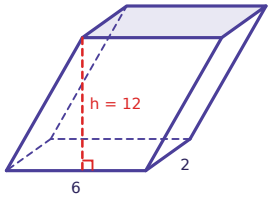
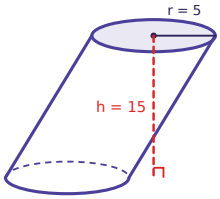
**Task card 1** Cavalieri's Principle & Oblique So...

An oblique prism has a 6 by 2 rectangular base and a height of 12. Find its volume.




**Task card 2** Cavalieri's Principle & Oblique So...

An oblique cylinder has radius 5 and height 15. Find its volume in terms of π.

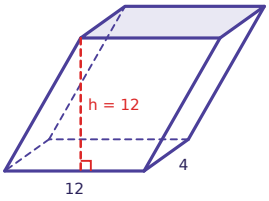



**Task card 3** Cavalieri's Principle & Oblique So...

A right prism has a 9 by 9 square base and height 8. An oblique prism has the same base and height 9. Do they have the same volume?

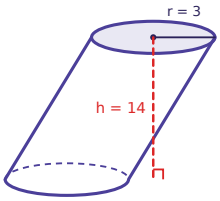
**Task card 4** Cavalieri's Principle & Oblique So...

An oblique prism has a 12 by 4 rectangular base and a height of 12. Find its volume.




**Task card 5** Cavalieri's Principle & Oblique So...

An oblique cylinder has radius 3 and height 14. Find its volume in terms of π.




**Task card 6** Cavalieri's Principle & Oblique So...

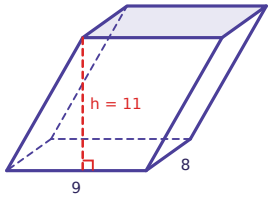
15 square tiles, each 11 cm by 11 cm and 1 cm thick, are stacked and then pushed into a leaning stack. Find the volume of the leaning stack in cubic centimeters.

**Task card 7** Cavalieri's Principle & Oblique So...

A right prism has a 9 by 9 square base and height 12. An oblique prism has the same base and height 15. Do they have the same volume?

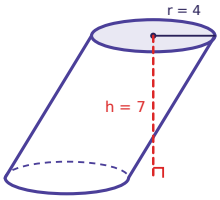
**Task card 8** Cavalieri's Principle & Oblique So...

An oblique prism has a 9 by 8 rectangular base and a height of 11. Find its volume.




**Task card 9** Cavalieri's Principle & Oblique So...

An oblique cylinder has radius 4 and height 7. Find its volume in terms of π.

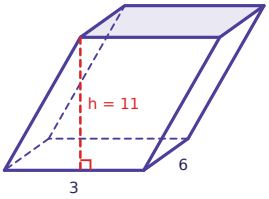



**Task card 10** Cavalieri's Principle & Oblique So...

A right cylinder and an oblique cylinder both have radius 2 and height 9. Do they have the same volume?

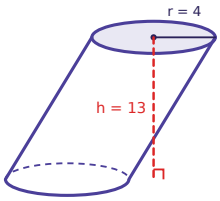
**Task card 11** Cavalieri's Principle & Oblique So...

An oblique prism has a 3 by 6 rectangular base and a height of 11. Find its volume.




**Task card 12** Cavalieri's Principle & Oblique So...

An oblique cylinder has radius 4 and height 13. Find its volume in terms of π.



**Task card 13** Cavalieri's Principle & Oblique So...

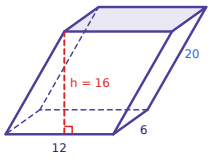
10 square tiles, each 15 cm by 15 cm and 1 cm thick, are stacked and then pushed into a leaning stack. Find the volume of the leaning stack in cubic centimeters.

**Task card 14** Cavalieri's Principle & Oblique So...

A right prism has an 8 by 8 square base and height 6. An oblique prism has the same base and height 9. Do they have the same volume?

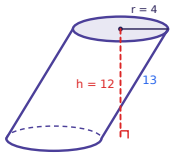
**Task card 15** Cavalieri's Principle & Oblique So...

An oblique prism has a 12 by 6 rectangular base and a height of 16. Each slanted edge is 20 long. Find its volume.



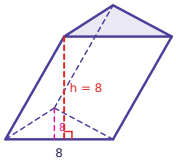

**Task card 16** Cavalieri's Principle & Oblique So...

An oblique cylinder has radius 4 and height 12. Its slanted side is 13 long. Find its volume in terms of π.



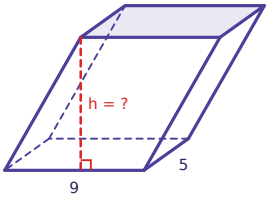

**Task card 17** Cavalieri's Principle & Oblique So...

An oblique prism has a triangular base with base 8 and height 8. The height of the prism is 8. Find its volume.




**Task card 18** Cavalieri's Principle & Oblique So...

An oblique prism with a 9 by 5 rectangular base has a volume of 405. Find its height.



**Task card 19** Cavalieri's Principle & Oblique So...

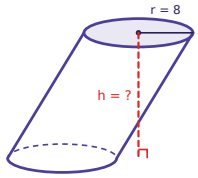
A right cylinder has radius 2 and height 7. An oblique cylinder has the same base and height 10. Do they have the same volume?

**Task card 20** Cavalieri's Principle & Oblique So...

12 square tiles, each 11 cm by 11 cm and 1 cm thick, are stacked and then pushed into a leaning stack. Find the volume of the leaning stack in cubic centimeters.

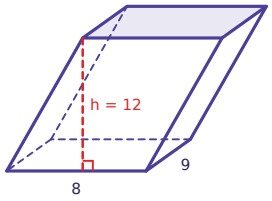
**Task card 21** Cavalieri's Principle & Oblique So...

An oblique cylinder has radius 8 and volume 448π. Find its height.



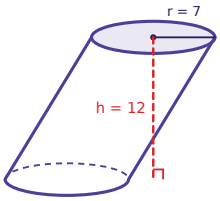

**Task card 22** Cavalieri's Principle & Oblique So...

An oblique prism has an 8 by 9 rectangular base and a height of 12. Find its volume.




**Task card 23** Cavalieri's Principle & Oblique So...

An oblique cylinder has radius 7 and height 12. Find its volume in terms of π.




**Task card 24** Cavalieri's Principle & Oblique So...

A right cylinder has radius 9 and height 10. An oblique cylinder has the same base and a slanted side of length 10, leaning so its height is 8. Do they have the same volume?

# Cavalieri's Principle & Oblique Solids Task Cards

Recording sheet · Grade 10 · Give the volume of a solid with a circular base in terms of π, like 48π; give other answers as numbers. Use the perpendicular height h, not the slanted edge. Answer yes or no when asked.

Scan to check your answers

Name: _____ Date: _____

| | | | |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 |

# Cavalieri's Principle & Oblique Solids Task Cards: Answer Key

Grade 10 · Easy

The answers online

| | | |
|---|---|---|
| **1.** 144 | **2.** 375π | **3.** no |
| **4.** 576 | **5.** 126π | **6.** 1815 |
| **7.** no | **8.** 792 | **9.** 112π |
| **10.** yes | **11.** 198 | **12.** 208π |
| **13.** 2250 | **14.** no | **15.** 1152 |
| **16.** 192π | **17.** 256 | **18.** 9 |
| **19.** no | **20.** 1452 | **21.** 7 |
| **22.** 864 | **23.** 588π | **24.** no |