Task card 1 Volume: Changing Radius & Height

The height of a cylinder triples and its radius stays the same. How many times as large is the new volume?

Task card 2 Volume: Changing Radius & Height

The radius of a cylinder triples and its height stays the same. How many times as large is the new volume?

Task card 3 Volume: Changing Radius & Height

The height of a cylinder doubles and its radius stays the same. How many times as large is the new volume?

Task card 4 Volume: Changing Radius & Height

A cylinder and a cone have the same radius and the same height. The cylinder holds 189 cubic cm. How much does the cone hold, in cubic cm?

Task card 5 Volume: Changing Radius & Height

A cylinder and a cone have the same radius and the same height. The cylinder holds 168 cubic cm. How much does the cone hold, in cubic cm?

Task card 6 Volume: Changing Radius & Height

A cylinder and a cone have the same radius and the same height. The cylinder holds 264 cubic cm. How much does the cone hold, in cubic cm?

Task card 7 Volume: Changing Radius & Height

The radius of a cone triples and its height stays the same. How many times as large is the new volume?

Task card 8 Volume: Changing Radius & Height

The radius of a cone doubles and its height stays the same. How many times as large is the new volume?

Task card 9 Volume: Changing Radius & Height

A cylinder and a cone have the same radius and the same height. The cylinder holds 234 cubic cm. How much does the cone hold, in cubic cm?

Task card 10 Volume: Changing Radius & Height

The radius of a cylinder doubles and its height stays the same. How many times as large is the new volume?

Task card 11 Volume: Changing Radius & Height

A cylinder and a cone have the same radius and the same height. The cylinder holds 327 cubic cm. How much does the cone hold, in cubic cm?

Task card 12 Volume: Changing Radius & Height

A cylinder and a cone have the same radius and the same height. The cylinder holds 126 cubic cm. How much does the cone hold, in cubic cm?

Task card 13 Volume: Changing Radius & Height

A cylinder has a volume of 54 cubic inches. Its radius triples. What is the new volume, in cubic inches?

Task card 14 Volume: Changing Radius & Height

A cylinder and a cone have the same radius and the same height. The cylinder holds 225 cubic cm. How much does the cone hold, in cubic cm?

Task card 15 Volume: Changing Radius & Height

A cylinder has a volume of 58 cubic inches. Its radius doubles. What is the new volume, in cubic inches?

Task card 16 Volume: Changing Radius & Height

A cylinder has a volume of 27 cubic inches. Its radius is multiplied by 4. What is the new volume, in cubic inches?

Task card 17 Volume: Changing Radius & Height

The height of a cylinder is multiplied by 4 and its radius stays the same. How many times as large is the new volume?

Task card 18 Volume: Changing Radius & Height

A cylinder and a cone have the same radius and the same height. The cylinder holds 132 cubic cm. How much does the cone hold, in cubic cm?

Task card 19 Volume: Changing Radius & Height

A cylinder and a cone have the same radius and the same height. The cylinder holds 114 cubic cm. How much does the cone hold, in cubic cm?

Task card 20 Volume: Changing Radius & Height

A cylinder and a cone have the same radius and the same height. The cylinder holds 129 cubic cm. How much does the cone hold, in cubic cm?

Task card 21 Volume: Changing Radius & Height

A cylinder and a cone have the same radius and the same height. The cylinder holds 138 cubic cm. How much does the cone hold, in cubic cm?

Task card 22 Volume: Changing Radius & Height

A cylinder and a cone have the same radius and the same height. The cylinder holds 150 cubic cm. How much does the cone hold, in cubic cm?

Task card 23 Volume: Changing Radius & Height

A cylinder and a cone have the same radius and the same height. The cylinder holds 87 cubic cm. How much does the cone hold, in cubic cm?

Task card 24 Volume: Changing Radius & Height

A cylinder and a cone have the same radius and the same height. The cylinder holds 219 cubic cm. How much does the cone hold, in cubic cm?

Volume: Changing Radius & Height Task Cards

Recording sheet · Grade 8 · Use $V = \pi r^2 h$ for a cylinder and $V = \frac{1}{3}\pi r^2 h$ for a cone. Leave answers in terms of π when the question does.

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

Volume: Changing Radius & Height Task Cards: Answer Key

Grade 8 · Easy

The answers online

1. 3	**2.** 9	**3.** 2
4. 63	**5.** 56	**6.** 88
7. 9	**8.** 4	**9.** 78
10. 4	**11.** 109	**12.** 42
13. 486	**14.** 75	**15.** 232
16. 432	**17.** 4	**18.** 44
19. 38	**20.** 43	**21.** 46
22. 50	**23.** 29	**24.** 73