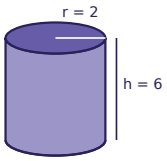
Volume: Changing Radius & Height · 1

A cylinder has a volume of 24π cubic cm and a radius of 2 cm. What is its height, in cm?



Volume: Changing Radius & Height · 2

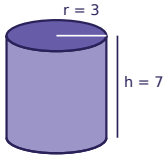
A cylinder has a volume of 49 cubic inches. Its radius triples. What is the new volume, in cubic inches?

Volume: Changing Radius & Height · 3

The radius of a cylinder is multiplied by 5 and its height stays the same. How many times as large is the new volume?

Volume: Changing Radius & Height · 4

A cylinder has a volume of 63π cubic cm and a radius of 3 cm. What is its height, in cm?

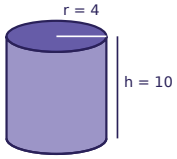


Volume: Changing Radius & Height · 5

A cylinder has a volume of 33 cubic inches. Its radius is multiplied by 5. What is the new volume, in cubic inches?

Volume: Changing Radius & Height · 6

A cylinder has a volume of 160π cubic cm and a radius of 4 cm. What is its height, in cm?



Volume: Changing Radius & Height · 7

The length and the width of a rectangular prism both triple, and its height stays the same. How many times as large is the new volume?

Volume: Changing Radius & Height · 8

A cylinder has a volume of 59 cubic inches. Its radius triples. What is the new volume, in cubic inches?

Volume: Changing Radius & Height · 2

ANSWER

441

Volume: Changing Radius & Height · 1

ANSWER

6

Volume: Changing Radius & Height · 4

ANSWER

7

Volume: Changing Radius & Height · 3

ANSWER

25

Volume: Changing Radius & Height · 6

ANSWER

10

Volume: Changing Radius & Height · 5

ANSWER

825

Volume: Changing Radius & Height · 8

ANSWER

531

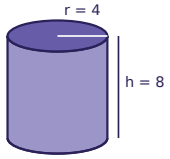
Volume: Changing Radius & Height · 7

ANSWER

9

Volume: Changing Radius & Height · 9

A cylinder has a volume of 128π cubic cm and a radius of 4 cm. What is its height, in cm?

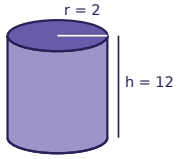


Volume: Changing Radius & Height · 10

A cylinder's radius doubles and its height triples. How many times as large is the new volume?

Volume: Changing Radius & Height · 11

A cylinder has a volume of 48π cubic cm and a radius of 2 cm. What is its height, in cm?

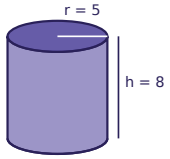


Volume: Changing Radius & Height · 12

A cylinder has a volume of 5 cubic inches. Its radius triples. What is the new volume, in cubic inches?

Volume: Changing Radius & Height · 13

A cylinder has a volume of 200π cubic cm and a radius of 5 cm. What is its height, in cm?



Volume: Changing Radius & Height · 14

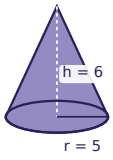
The radius of a cylinder doubles and its height stays the same. How many times as large is the new volume?

Volume: Changing Radius & Height · 15

A cylinder's radius triples and its height triples. How many times as large is the new volume?

Volume: Changing Radius & Height · 16

A cone has a volume of 50π cubic cm and a radius of 5 cm. What is its height, in cm?



Volume: Changing Radius & Height · 10

ANSWER

12

Volume: Changing Radius & Height · 9

ANSWER

8

Volume: Changing Radius & Height · 12

ANSWER

45

Volume: Changing Radius & Height · 11

ANSWER

12

Volume: Changing Radius & Height · 14

ANSWER

4

Volume: Changing Radius & Height · 13

ANSWER

8

Volume: Changing Radius & Height · 16

ANSWER

6

Volume: Changing Radius & Height · 15

ANSWER

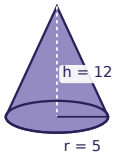
27

Volume: Changing Radius & Height · 17

The length and the width of a rectangular prism both are multiplied by 4, and its height stays the same. How many times as large is the new volume?

Volume: Changing Radius & Height · 18

A cone has a volume of 100π cubic cm and a radius of 5 cm. What is its height, in cm?

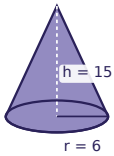


Volume: Changing Radius & Height · 19

A cylinder has a volume of 13 cubic inches. Its radius doubles. What is the new volume, in cubic inches?

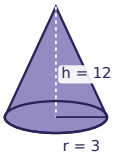
Volume: Changing Radius & Height · 20

A cone has a volume of 180π cubic cm and a radius of 6 cm. What is its height, in cm?



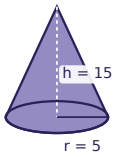
Volume: Changing Radius & Height · 21

A cone has a volume of 36π cubic cm and a radius of 3 cm. What is its height, in cm?



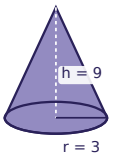
Volume: Changing Radius & Height · 22

A cone has a volume of 125π cubic cm and a radius of 5 cm. What is its height, in cm?



Volume: Changing Radius & Height · 23

A cone has a volume of 27π cubic cm and a radius of 3 cm. What is its height, in cm?



Volume: Changing Radius & Height · 24

The length and the width of a rectangular prism both are multiplied by 5, and its height stays the same. How many times as large is the new volume?

Volume: Changing Radius & Height · 18

ANSWER

12

Volume: Changing Radius & Height · 17

ANSWER

16

Volume: Changing Radius & Height · 20

ANSWER

15

Volume: Changing Radius & Height · 19

ANSWER

52

Volume: Changing Radius & Height · 22

ANSWER

15

Volume: Changing Radius & Height · 21

ANSWER

12

Volume: Changing Radius & Height · 24

ANSWER

25

Volume: Changing Radius & Height · 23

ANSWER

9