



**THIRD SPACE
LEARNING**

Volume Of A Cone Worksheet

Geometry

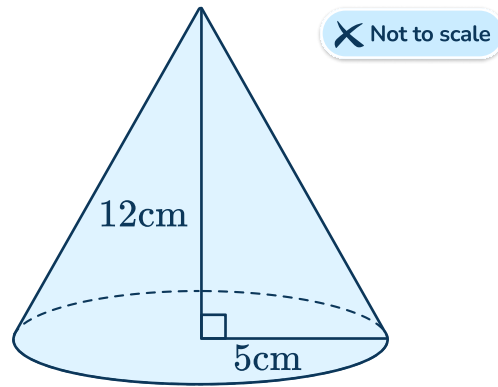
Grades 6 to 8

Questions

Name:

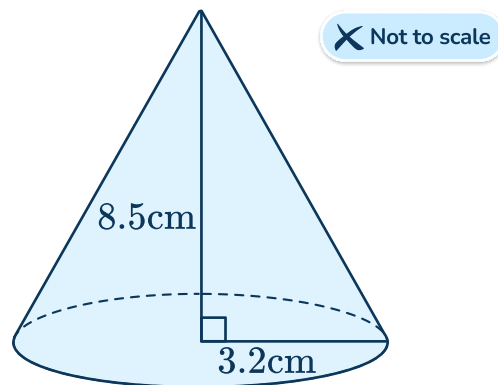
Date:

- 1 Find the volume of a cone with a radius of 5 cm and a height of 12 cm.
Give your answer to 3 significant figures.



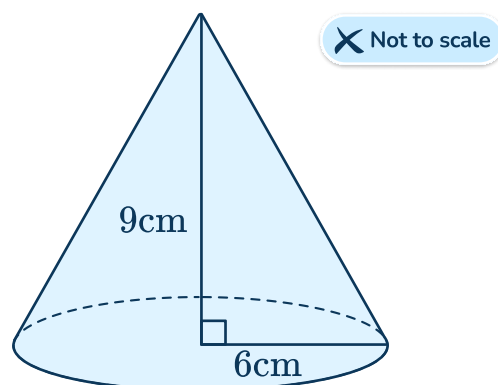
Answer

- 2 A cone has a radius of 3.2 cm and a height of 8.5 cm.
Find its volume to 3 significant figures.



Answer

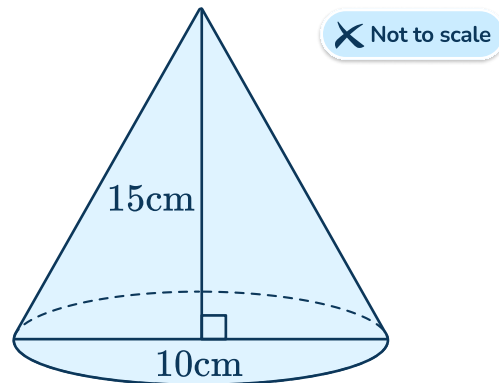
- 3 Calculate the volume of a cone with radius 6 cm and height 9 cm.
Write your answer in terms of π .



Answer

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- 4 Find the volume of a cone with a diameter of 10 cm and height 15 cm.
Write your answer in terms of π .



Answer

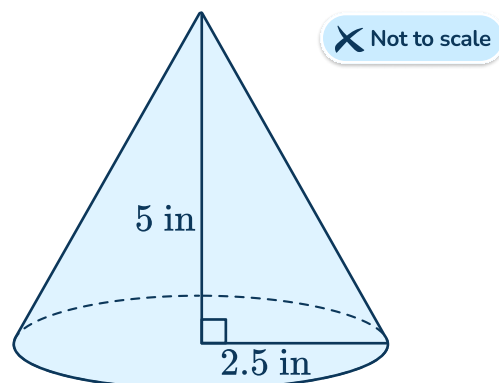
- 5 A cone has a volume of 500 cm^3 and a radius of 7 cm.
Calculate its perpendicular height, correct to 1 decimal place.

Answer

- 6 The volume of a cone is 720 cm^3 and its height is 10 cm. Find the radius of the cone. Give your answer to 2 decimal places.

Answer

- 7 Find the volume of a cone with radius 2.5 inches and height 5 inches.
Give your answer to 3 significant figures.



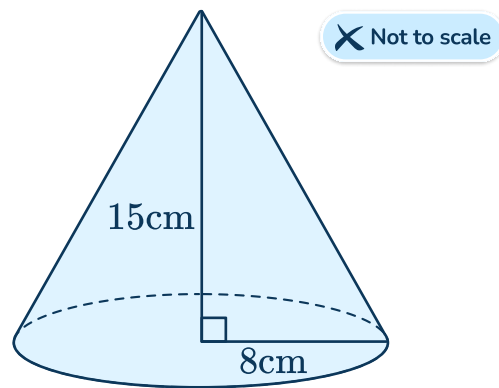
Answer

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- 8 A cone has a radius of 4.5 cm and height of 7.2 cm.
Calculate its volume to 3 significant figures.

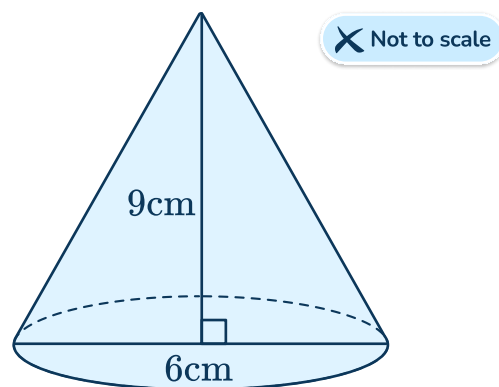
Answer

- 9 Calculate the volume of a cone with radius 8 cm and height 15 cm.
Write your answer in terms of π .



Answer

- 10 Find the volume of a cone with a diameter of 6 cm and a height of 9 cm.
Write your answer in terms of π .



Answer

- 11 A cone has a volume of $1,000 \text{ cm}^3$ and a radius of 9 cm.
Calculate its perpendicular height to 2 decimal places.

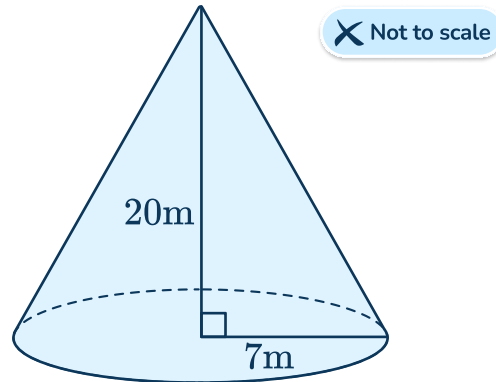
Answer

Volume Of A Cone Worksheet | Grades 6 to 8

- 12 The volume of a cone is 450 cm^3 and its height is 10 cm. Find the radius of the cone. Give your answer to 2 decimal places.

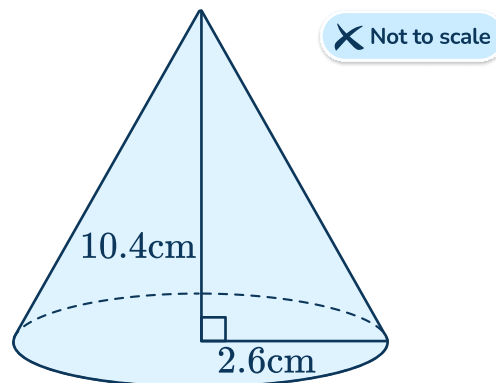
Answer

- 13 Find the volume of a cone with a radius of 7 m and height of 20 m. Give your answer to 3 significant figures.



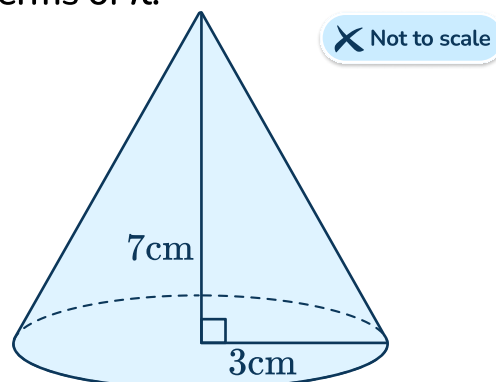
Answer

- 14 A cone has a radius of 2.6 cm and a height of 10.4 cm. Find its volume to 3 significant figures.



Answer

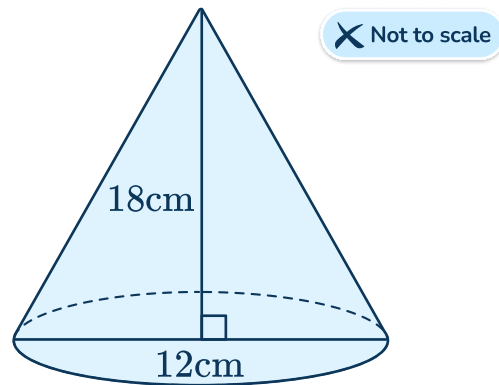
- 15 Calculate the volume of a cone with a radius of 3 cm and a height of 7 cm. Write your answer in terms of π .



Answer

Volume Of A Cone Worksheet | Grades 6 to 8

- 16 Find the volume of a cone with a diameter of 12 cm and a height of 18 cm. Write your answer in terms of π .



Answer

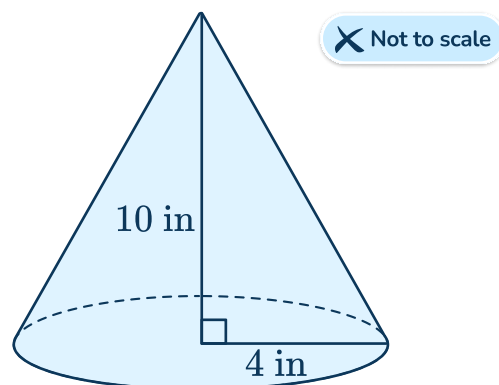
- 17 A cone has a volume of 600 cm^3 and a radius of 5 cm. Calculate its perpendicular height to 1 decimal place.

Answer

- 18 The volume of a cone is 900 cm^3 and its height is 15 cm. Find the radius of the cone. Give your answer to 2 decimal places.

Answer

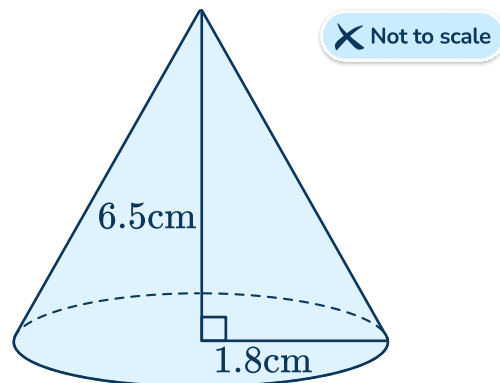
- 19 Find the volume of a cone with a radius of 4 inches and a height of 10 inches. Give your answer to 3 significant figures.



Answer

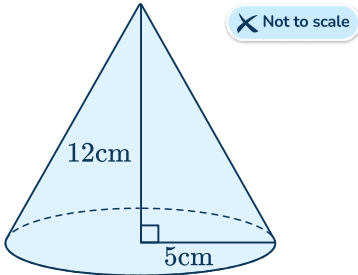
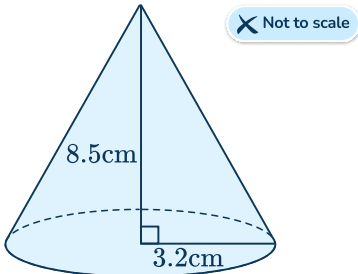
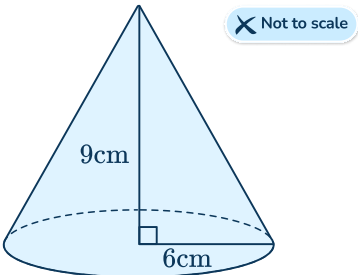
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- 20 A cone has a radius of 1.8 cm and a height of 6.5 cm.
Calculate its volume to 3 significant figures.

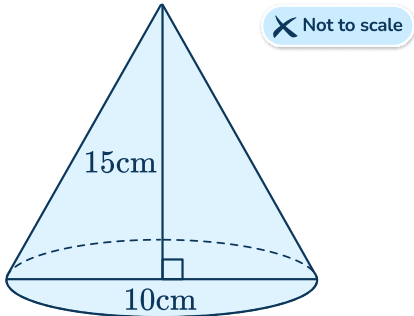
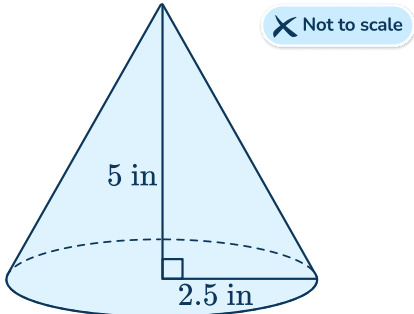


Answer

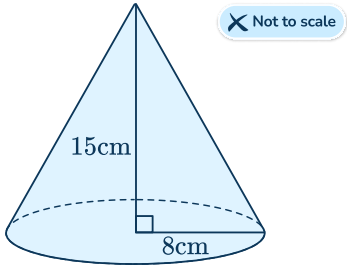
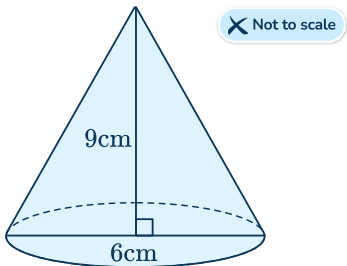
Answers

Question number	Question	Answers	Standard
1	Find the volume of a cone with a radius of 5 cm and a height of 12cm. Give your answer to 3 significant figures. 	314 cm^3	8.G.C.9
2	A cone has a radius of 3.2 cm and a height of 8.5 cm. Find its volume to 3 significant figures. 	91.1 cm^3	8.G.C.9
3	Calculate the volume of a cone with radius 6 cm and height 9 cm. Write your answer in terms of π. 	$108\pi \text{ cm}^3$	8.G.C.9

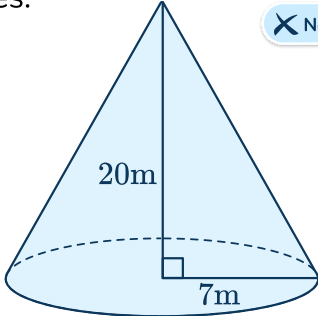
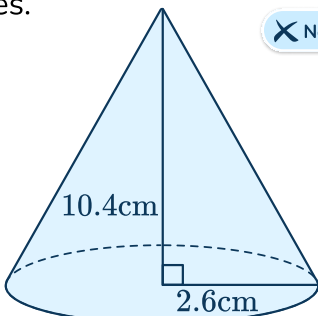
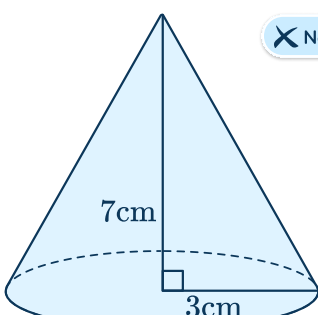
Volume Of A Cone Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
4	Find the volume of a cone with a diameter of 10 cm and height 15 cm. Write your answer in terms of π. 	$125\pi \text{ cm}^3$	8.G.C.9
5	A cone has a volume of 500 cm^3 and a radius of 7 cm. Calculate its perpendicular height, correct to 1 decimal place.	9.7 cm	8.G.C.9
6	The volume of a cone is 720 cm^3 and its height is 10 cm. Find the radius of the cone. Give your answer to 2 decimal places.	8.29 cm	8.G.C.9
7	Find the volume of a cone with radius 2.5 inches and height 5 inches. Give your answer to 3 significant figures. 	32.7 in^3	8.G.C.9
8	A cone has a radius of 4.5 cm and height of 7.2 cm. Calculate its volume to 3 significant figures.	153 cm^3	8.G.C.9

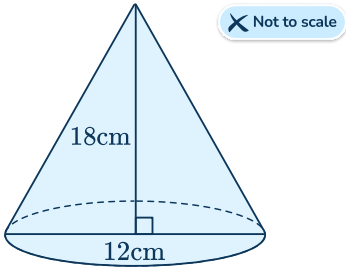
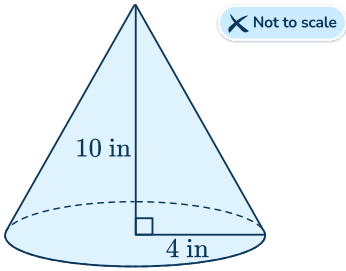
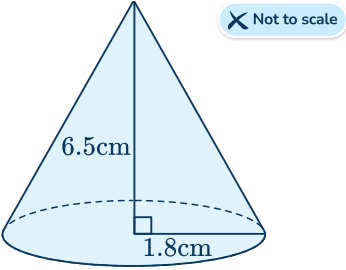
Volume Of A Cone Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
9	Calculate the volume of a cone with radius 8 cm and height 15 cm. Write your answer in terms of π. 	$320\pi \text{ cm}^3$	8.G.C.9
10	Find the volume of a cone with a diameter of 6 cm and a height of 9 cm. Write your answer in terms of π. 	$27\pi \text{ cm}^3$	8.G.C.9
11	A cone has a volume of $1,000 \text{ cm}^3$ and a radius of 9 cm. Calculate its perpendicular height to 2 decimal places.	11.79 cm	8.G.C.9
12	The volume of a cone is 450 cm^3 and its height is 10 cm. Find the radius of the cone. Give your answer to 2 decimal places.	6.56 cm	8.G.C.9

Volume Of A Cone Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
13	Find the volume of a cone with a radius of 7 m and height of 20 m. Give your answer to 3 significant figures.  Not to scale	1,030 m ³	8.G.C.9
14	A cone has a radius of 2.6 cm and a height of 10.4 cm. Find its volume to 3 significant figures.  Not to scale	73.6 cm ³	8.G.C.9
15	Calculate the volume of a cone with a radius of 3 cm and a height of 7 cm. Write your answer in terms of π.  Not to scale	$21\pi \text{ cm}^3$	8.G.C.9

Volume Of A Cone Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
16	Find the volume of a cone with a diameter of 12 cm and a height of 18 cm. Write your answer in terms of π. 	$216\pi \text{ cm}^3$	8.G.C.9
17	A cone has a volume of 600 cm^3 and a radius of 5 cm. Calculate its perpendicular height to 1 decimal place.	22.9 cm	8.G.C.9
18	The volume of a cone is 900 cm^3 and its height is 15 cm. Find the radius of the cone. Give your answer to 2 decimal places.	7.57 cm	8.G.C.9
19	Find the volume of a cone with a radius of 4 inches and a height of 10 inches. Give your answer to 3 significant figures. 	168 in^3	8.G.C.9
20	A cone has a radius of 1.8 cm and a height of 6.5 cm. Calculate its volume to 3 significant figures. 	22.1 cm^3	8.G.C.9

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