



**THIRD SPACE
LEARNING**

Volume Of A Cylinder Worksheet

Geometry

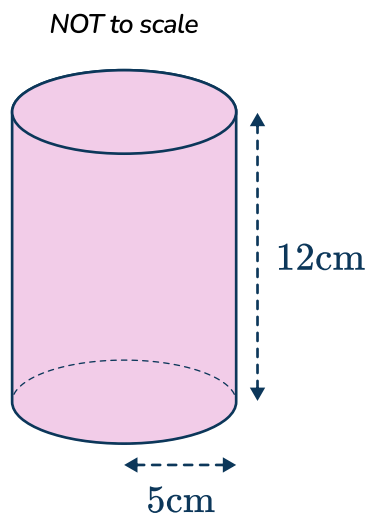
Grades 6 to 8

Questions

Name:

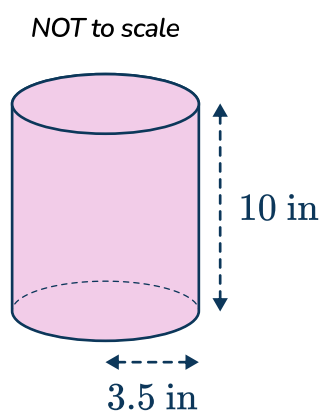
Date:

- 1 Find the volume of a cylinder with radius 5 cm and height 12 cm.
Leave your answer in terms of π .



Answer

- 2 A cylinder has a radius of 3.5 inches and a height of 10 inches.
Find its volume to 1 decimal place.



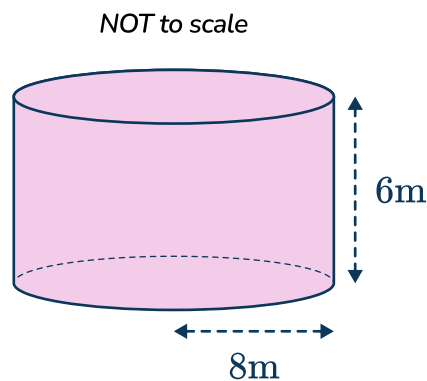
Answer

Volume Of A Cylinder Worksheet | Grades 6 to 8

- 3 The volume of a cylinder is 785 cm^3 and its height is 10 cm.
Find the radius to 2 decimal places.

Answer

- 4 Calculate the volume of a cylinder with radius 8 m and height 6 m.
Give your answer to the nearest whole number.

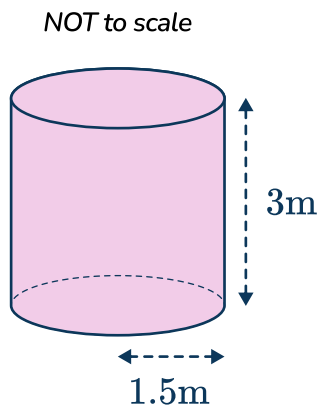


Answer

- 5 The radius of a cylinder is 4.2 cm and its volume is 221.76 cm^3 .
Find the height to 1 decimal place.

Answer

- 6 A water tank is shaped like a cylinder with a radius of 1.5 m and a height of 3 m.
What is its volume in terms of π ?



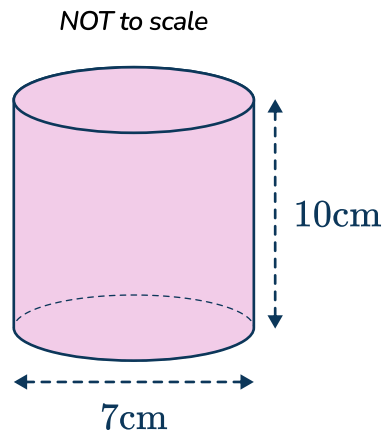
Answer

Volume Of A Cylinder Worksheet | Grades 6 to 8

- 7 The volume of a cylinder is 628 cm^3 and the radius is 4 cm.
Find the height to 1 decimal place.

Answer

- 8 A soup can is a cylinder with a diameter of 7 cm and a height of 10 cm.
Find its volume to 2 decimal places.

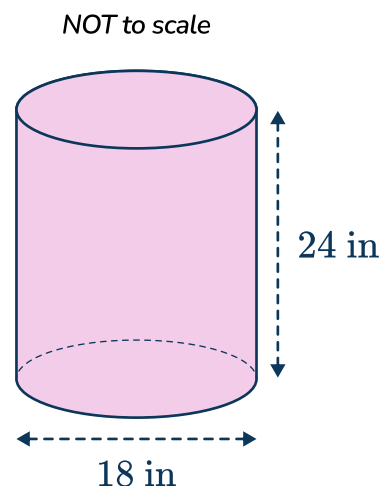


Answer

- 9 The height of a cylinder is 14 cm and its volume is $1,540 \text{ cm}^3$.
Find the radius to 2 decimal places.

Answer

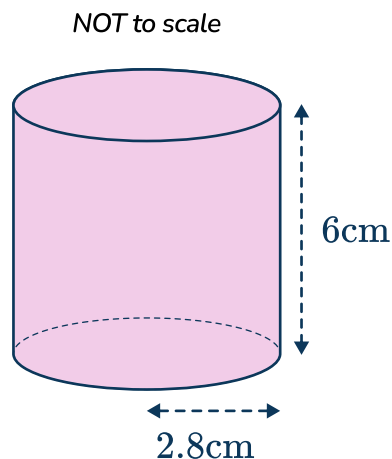
- 10 Find the volume of a cylinder with diameter 18 inches and height 24 inches.
Leave your answer in terms of π .



Answer

Volume Of A Cylinder Worksheet | Grades 6 to 8

- 11** A cylinder has a radius of 2.8 cm and a height of 6 cm.
Calculate its volume to the nearest tenth.

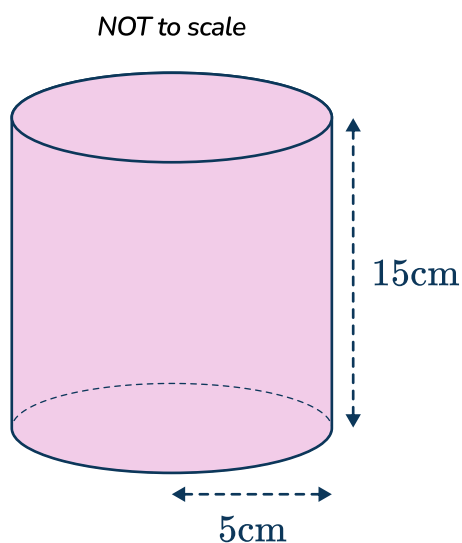


Answer

- 12** The volume of a cylinder is 980 m^3 , and its height is 7 m.
Find the radius to 1 decimal place.

Answer

- 13** A glass jar is in the shape of a cylinder with a radius of 5 cm and a height of 15 cm.
Find the volume in terms of π .



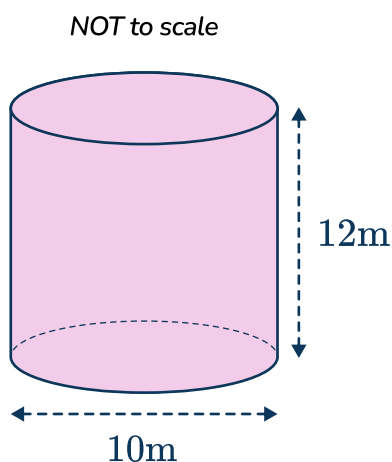
Answer

Volume Of A Cylinder Worksheet | Grades 6 to 8

- 14 The volume of a cylinder is $1,570 \text{ cm}^3$.
If the radius is 7 cm, find the height to the nearest whole number.

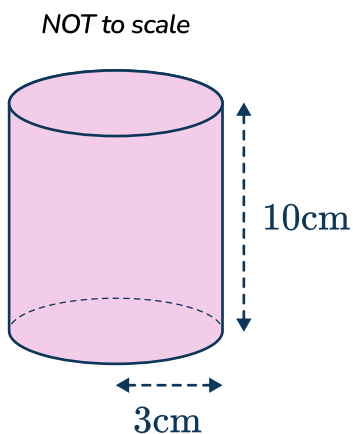
Answer

- 15 A cylindrical barrel has a diameter of 10 m and a height of 12 m.
Find its volume to 2 decimal places.



Answer

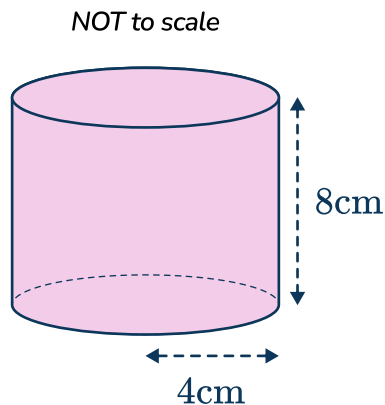
- 16 The radius of a cylinder is 3 cm and the height is 10 cm.
Find its volume in terms of π .



Answer

Volume Of A Cylinder Worksheet | Grades 6 to 8

- 17 A pencil holder is shaped like a cylinder with a radius of 4 cm and a height of 8 cm.
What is its volume in terms of π ?

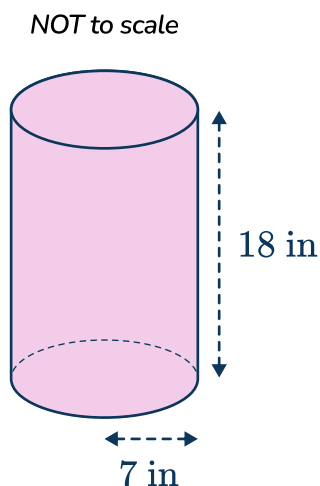


Answer

- 18 The volume of a cylinder is $4,520 \text{ cm}^3$ and the radius is 12 cm.
Find its height to 2 decimal places.

Answer

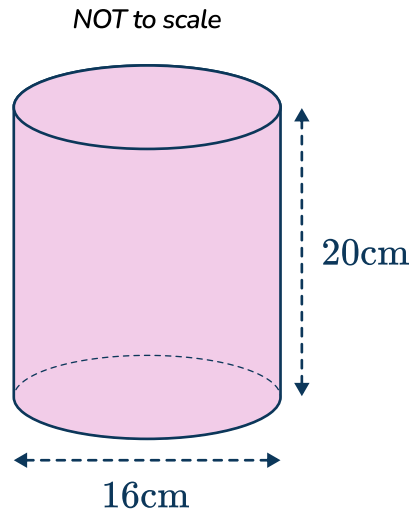
- 19 A cylindrical bucket has a radius of 7 inches and a height of 18 inches.
Find the volume to 2 decimal places.



Answer

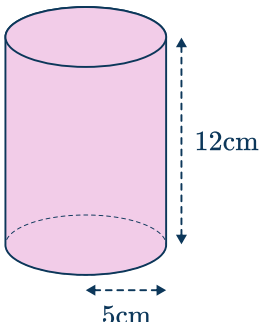
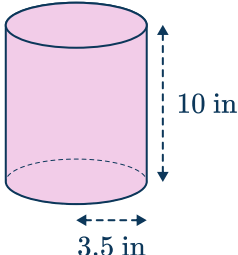
Volume Of A Cylinder Worksheet | Grades 6 to 8

- 20 Find the volume of a cylinder with a diameter of 16 cm and a height of 20 cm. Give your answer to 1 decimal place.

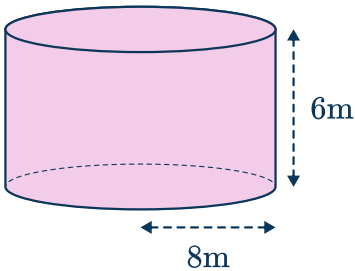
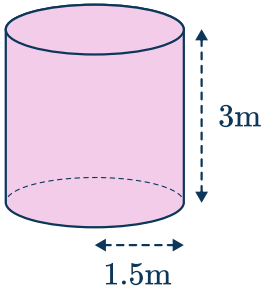


Answer

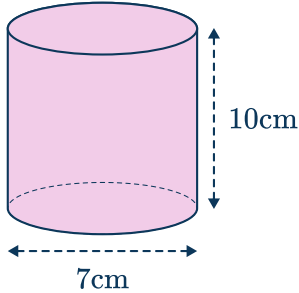
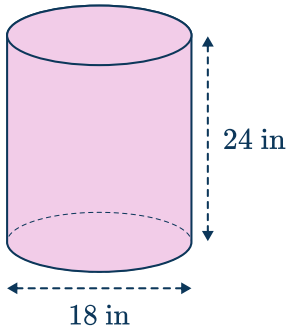
Answers

Question number	Question	Answers	Standard
1	<p>Find the volume of a cylinder with radius 5 cm and height 12 cm. Leave your answer in terms of π.</p> <p>NOT to scale</p>  <p>The diagram shows a pink cylinder. A dashed vertical line on the right side indicates the height is 12 cm. A dashed horizontal line across the bottom indicates the radius is 5 cm.</p>	$300\pi \text{ cm}^3$	7.G.B.6
2	<p>A cylinder has a radius of 3.5 inches and a height of 10 inches. Find its volume to 1 decimal place.</p> <p>NOT to scale</p>  <p>The diagram shows a pink cylinder. A dashed vertical line on the right side indicates the height is 10 in. A dashed horizontal line across the bottom indicates the radius is 3.5 in.</p>	384.8 in^3	7.G.B.6
3	<p>The volume of a cylinder is 785 cm^3 and its height is 10 cm. Find the radius to 2 decimal places.</p>	5.00 cm	7.G.B.6

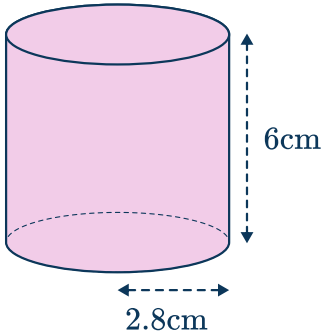
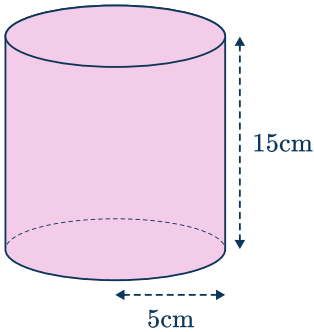
Volume Of A Cylinder Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
4	<p>Calculate the volume of a cylinder with radius 8 m and height 6 m. Give your answer to the nearest whole number.</p> <p style="text-align: center;"><i>NOT to scale</i></p>  <p>The diagram shows a pink cylinder. A dashed horizontal line across the base indicates a radius of 8m. A dashed vertical line along the side indicates a height of 6m.</p>	1,206 m ³	7.G.B.6
5	<p>The radius of a cylinder is 4.2 cm and its volume is 221.76 cm³. Find the height to 1 decimal place.</p>	4.0 cm	7.G.B.6
6	<p>A water tank is shaped like a cylinder with a radius of 1.5 m and a height of 3 m. What is its volume in terms of π?</p> <p style="text-align: center;"><i>NOT to scale</i></p>  <p>The diagram shows a pink cylinder. A dashed horizontal line across the base indicates a radius of 1.5m. A dashed vertical line along the side indicates a height of 3m.</p>	$6.75\pi \text{ m}^3$	7.G.B.6
7	<p>The volume of a cylinder is 628 cm³ and the radius is 4 cm. Find the height to 1 decimal place.</p>	12.5 cm	7.G.B.6

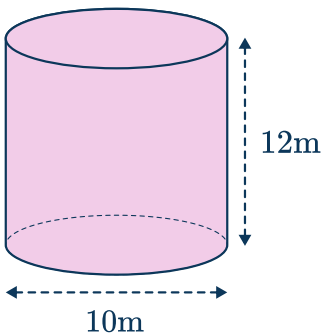
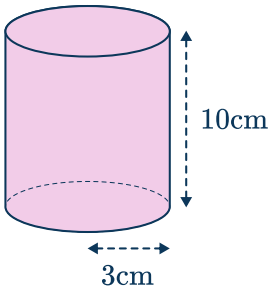
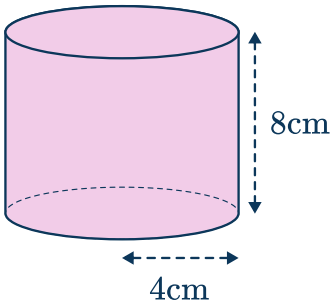
Volume Of A Cylinder Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
8	<p>A soup can is a cylinder with a diameter of 7 cm and a height of 10 cm. Find its volume to 2 decimal places.</p> <p><i>NOT to scale</i></p>  <p>The diagram shows a pink cylinder. A horizontal dashed line across the base indicates a diameter of 7 cm. A vertical dashed line on the right side indicates a height of 10 cm.</p>	384.85 cm ³	7.G.B.6
9	<p>The height of a cylinder is 14 cm and its volume is 1,540 cm³. Find the radius to 2 decimal places.</p>	5.92 cm	7.G.B.6
10	<p>Find the volume of a cylinder with diameter 18 inches and height 24 inches. Leave your answer in terms of π.</p> <p><i>NOT to scale</i></p>  <p>The diagram shows a pink cylinder. A horizontal dashed line across the base indicates a diameter of 18 in. A vertical dashed line on the right side indicates a height of 24 in.</p>	1,944 π in ³	7.G.B.6

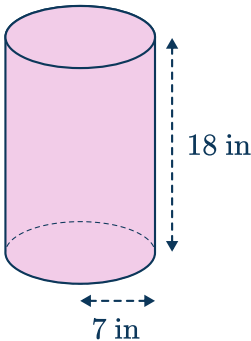
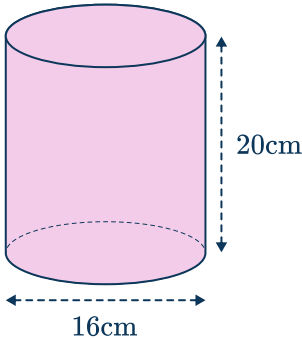
Volume Of A Cylinder Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
11	<p>A cylinder has a radius of 2.8 cm and a height of 6 cm. Calculate its volume to the nearest tenth.</p> <p><i>NOT to scale</i></p>  <p>The diagram shows a pink cylinder. A dashed horizontal line from the center of the base to the edge is labeled 2.8cm. A dashed vertical line from the center of the base to the center of the top is labeled 6cm.</p>	147.8 cm ³	7.G.B.6
12	<p>The volume of a cylinder is 980 m³, and its height is 7 m. Find the radius to 1 decimal place.</p>	6.7 m	7.G.B.6
13	<p>A glass jar is in the shape of a cylinder with a radius of 5 cm and a height of 15 cm. Find the volume in terms of π.</p> <p><i>NOT to scale</i></p>  <p>The diagram shows a pink cylinder. A dashed horizontal line from the center of the base to the edge is labeled 5cm. A dashed vertical line from the center of the base to the center of the top is labeled 15cm.</p>	$375\pi \text{ cm}^3$	7.G.B.6
14	<p>The volume of a cylinder is 1,570 cm³. If the radius is 7 cm, find the height to the nearest whole number.</p>	10 cm	7.G.B.6

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

Question number	Question	Answers	Standard
15	<p>A cylindrical barrel has a diameter of 10 m and a height of 12 m. Find its volume to 2 decimal places.</p> <p><i>NOT to scale</i></p>  <p>The diagram shows a pink cylinder. A horizontal dashed line across the base is labeled '10m'. A vertical dashed line on the right side is labeled '12m'.</p>	942.48 m ³	7.G.B.6
16	<p>The radius of a cylinder is 3 cm and the height is 10 cm. Find its volume in terms of π.</p> <p><i>NOT to scale</i></p>  <p>The diagram shows a pink cylinder. A horizontal dashed line across the base is labeled '3cm'. A vertical dashed line on the right side is labeled '10cm'.</p>	$90\pi \text{ cm}^3$	7.G.B.6
17	<p>A pencil holder is shaped like a cylinder with a radius of 4 cm and a height of 8 cm. What is its volume in terms of π?</p> <p><i>NOT to scale</i></p>  <p>The diagram shows a pink cylinder. A horizontal dashed line across the base is labeled '4cm'. A vertical dashed line on the right side is labeled '8cm'.</p>	$128\pi \text{ cm}^3$	7.G.B.6

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




Question number	Question	Answers	Standard
18	The volume of a cylinder is $4,520 \text{ cm}^3$ and the radius is 12 cm. Find its height to 2 decimal places.	9.99 cm	7.G.B.6
19	A cylindrical bucket has a radius of 7 inches and a height of 18 inches. Find the volume to 2 decimal places. <i>NOT to scale</i> 	$2,770.88 \text{ in}^3$	7.G.B.6
20	Find the volume of a cylinder with a diameter of 16 cm and a height of 20 cm. Give your answer to 1 decimal place. <i>NOT to scale</i> 	$4,021.2 \text{ cm}^3$	7.G.B.6

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- ✓ Scaffolded learning to close gaps

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