

Measuring Volume: Rectangular Prisms and Cylinders

1. Rectangular Prism ("box" shape)

Volume formula: $V = l \times w \times h$

$$V = l \times w \times h$$

Step	What to do	Why it matters
1 Identify the three edges	Label length (l), width (w), and height (h).	All three are needed for the formula.
2 Measure each edge	Use the same unit (cm, m, etc.).	Mixing units will give the wrong answer.
3 Write the formula	$V = l \times w \times h$	Base area times height.
4 Substitute & multiply	Insert the numbers and multiply.	Shows how the numbers relate.
5 State the answer with units	Use cubic units (cm^3 , m^3 , ...).	Volume counts 3-D cubes.

Example A

A pencil case is 18 cm long, 7 cm wide, and 5 cm high.

$$V = 18 \text{ cm} \times 7 \text{ cm} \times 5 \text{ cm}$$

$$V = 630 \text{ cm}^3$$

2. Cylinder

Volume formula: $V = \pi \times r^2 \times h$



$$\begin{aligned} A &= \pi r^2 \\ 3.14 \times 4 \times 4 &= 50.24 \text{ cm}^2 \\ V &= \pi r^2 \times h \\ &= 50.24 \times 4 \\ &= 200.96 \text{ cm}^2 \end{aligned}$$

Step	What to do	Why it matters
1 Find the radius (r)	Measure the diameter and divide by 2.	The formula needs the radius.
2 Find the height (h)	Measure the distance between the bases.	Height is the "stacking" length.
3 Write the formula	$V = \pi r^2 h$	Base area (πr^2) \times height.
4 Substitute	Keep an extra decimal place while calculating.	Reduces rounding error.
5 Calculate	Multiply $r \times r \times \pi \times h$.	Follows order of operations.
6 State the answer with units	Use cubic units.	Matches measurement accuracy.

Example B

A can has a diameter of 6.8 cm and a height of 10 cm.

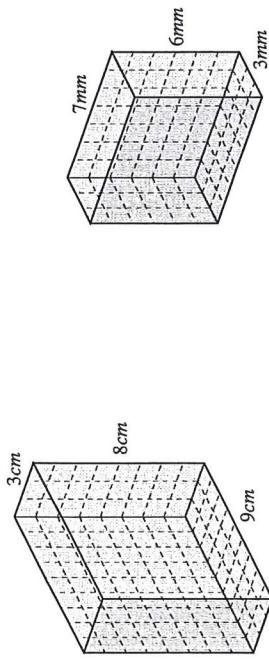
$$r = 6.8 \text{ cm} \div 2 = 3.4 \text{ cm}$$

$$V = \pi \times (3.4 \text{ cm})^2 \times 10 \text{ cm} \approx 363 \text{ cm}^3$$

Name: _____

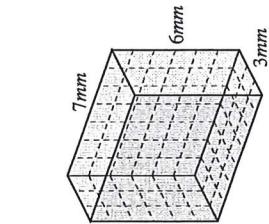
Volume and surface area of prisms (C)

Find the volume and surface area of each prism.



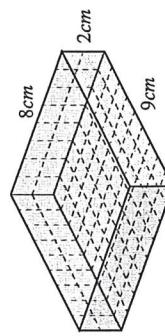
V: _____

SA: _____



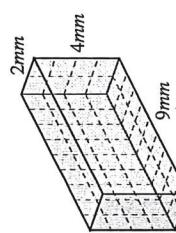
V: _____

SA: _____



V: _____

SA: _____



V: _____

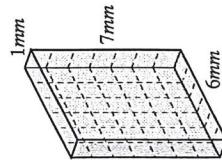
SA: _____

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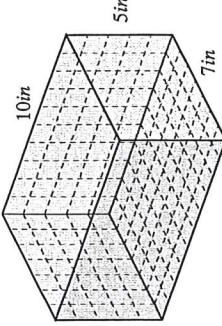
V = L × W × H

Volume and surface area of prisms (D)

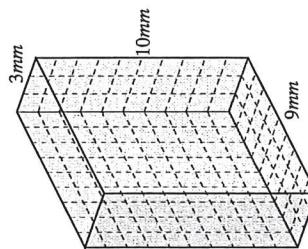
Find the volume and surface area of each prism.



V: _____
SA: _____

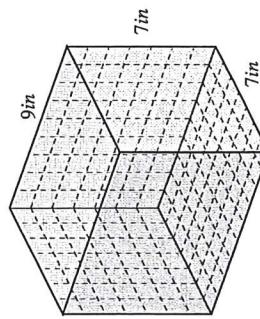


V: _____
SA: _____



V: _____
SA: _____

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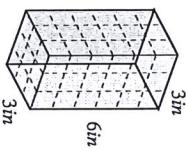


V: _____
SA: _____

V = L × W × H

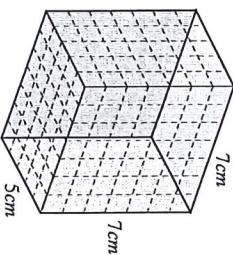
Volume and surface area of prisms (A)

Find the volume and surface area of each prism.



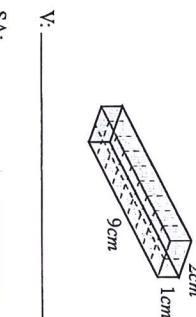
V: _____

SA: _____



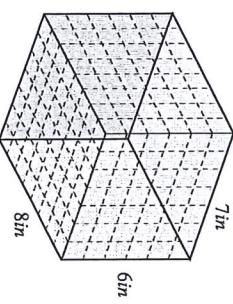
V: _____

SA: _____



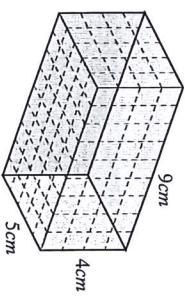
V: _____

SA: _____



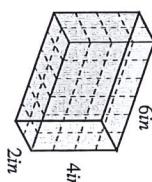
V: _____

SA: _____



V: _____

SA: _____



V: _____

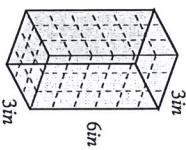
SA: _____

Volume and surface area of prisms (B)

Find the volume and surface area of each prism.

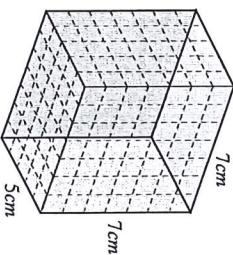
Volume and surface area of prisms (A)

Find the volume and surface area of each prism.



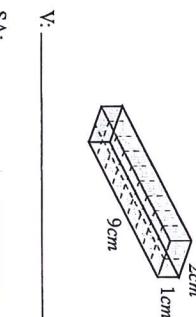
V: _____

SA: _____



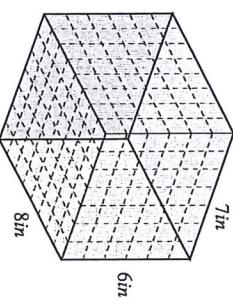
V: _____

SA: _____



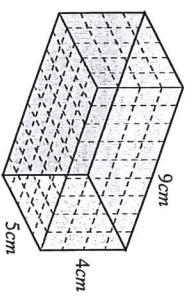
V: _____

SA: _____



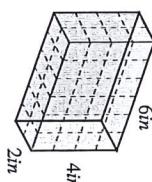
V: _____

SA: _____



V: _____

SA: _____



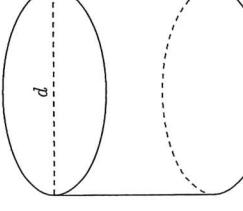
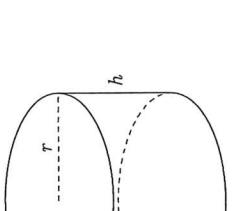
V: _____

SA: _____

Area and Volume of Cylinders (C)

Calculate the surface area and volume for each cylinder.

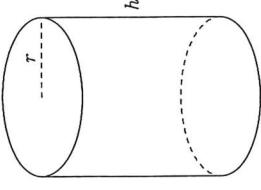
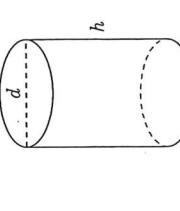
$$\text{Surface Area} = (\pi r^2 \times 2) + (\pi d \times h) \quad \text{Volume} = \pi r^2 \times h \quad d = 2r$$

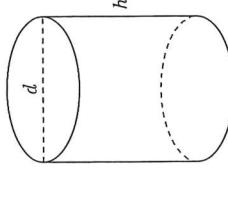
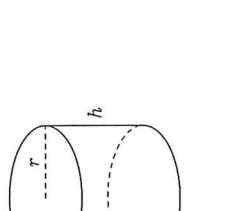
1. 
 $r = 2.3 \text{ nm}$ $h = 2.4 \text{ nm}$
 Surface Area =
 Volume =
2. 
 $d = 2.9 \text{ m}$ $h = 10.5 \text{ m}$
 Surface Area =
 Volume =

Area and Volume of Cylinders (D)

Calculate the surface area and volume for each cylinder.

$$\text{Surface Area} = (\pi r^2 \times 2) + (\pi d \times h) \quad \text{Volume} = \pi r^2 \times h \quad d = 2r$$

1. 
 $r = 8.5 \text{ nm}$ $h = 19 \text{ nm}$
 Surface Area =
 Volume =
2. 
 $d = 4.6 \text{ in}$ $h = 6 \text{ in}$
 Surface Area =
 Volume =

3. 
 $r = 7.75 \text{ m}$ $h = 10.5 \text{ m}$
 Surface Area =
 Volume =
4. 
 $d = 6.6 \text{ yd}$ $h = 8.8 \text{ yd}$
 Surface Area =
 Volume =

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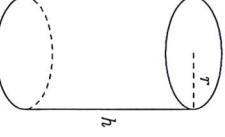
$V = \pi r^2 \times h$

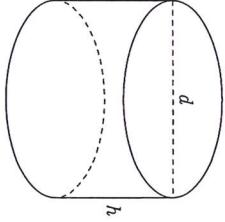
↑
Which is A circle.

Area and Volume of Cylinders (A)

Calculate the surface area and volume for each cylinder.

$$\text{Surface Area} = (\pi r^2 \times 2) + (\pi d \times h) \quad \text{Volume} = \pi r^2 \times h \quad d = 2r$$

1. 

2. 

$$r = 1.2 \text{ km} \quad h = 3.6 \text{ km}$$

$$d = 12.6 \text{ cm} \quad h = 7.5 \text{ cm}$$

$$\text{Surface Area} =$$

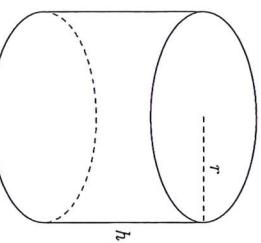
$$\text{Volume} =$$

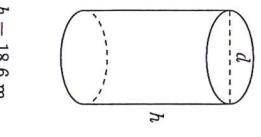
$$r = 9.1 \text{ mm} \quad h = 25.9 \text{ mm}$$

$$d = 16.5 \text{ cm} \quad h = 15 \text{ cm}$$

$$\text{Surface Area} =$$

$$\text{Volume} =$$

3. 

4. 

$$r = 7.2 \text{ mm} \quad h = 12.6 \text{ mm}$$

$$d = 24.3 \text{ nm} \quad h = 30.6 \text{ nm}$$

$$\text{Surface Area} =$$

$$\text{Volume} =$$

$$r = 18 \text{ ft} \quad h = 27.2 \text{ ft}$$

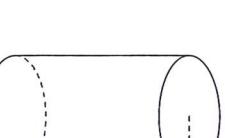
$$\text{Surface Area} =$$

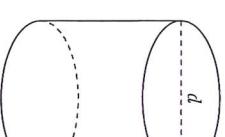
$$\text{Volume} =$$

Area and Volume of Cylinders (B)

Calculate the surface area and volume for each cylinder.

$$\text{Surface Area} = (\pi r^2 \times 2) + (\pi d \times h) \quad \text{Volume} = \pi r^2 \times h \quad d = 2r$$

1. 

2. 

$$r = 1.2 \text{ km} \quad h = 3.6 \text{ km}$$

$$d = 12.6 \text{ cm} \quad h = 7.5 \text{ cm}$$

$$\text{Surface Area} =$$

$$\text{Volume} =$$

$$r = 9.1 \text{ mm} \quad h = 25.9 \text{ mm}$$

$$d = 16.5 \text{ cm} \quad h = 15 \text{ cm}$$

$$\text{Surface Area} =$$

$$\text{Volume} =$$

$$r = 7.2 \text{ mm} \quad h = 12.6 \text{ mm}$$

$$d = 24.3 \text{ nm} \quad h = 30.6 \text{ nm}$$

$$\text{Surface Area} =$$

$$\text{Volume} =$$

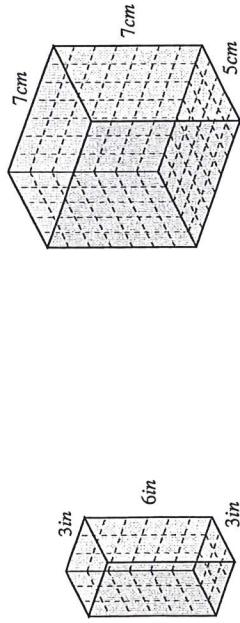
$$r = 18 \text{ ft} \quad h = 27.2 \text{ ft}$$

$$\text{Surface Area} =$$

$$\text{Volume} =$$

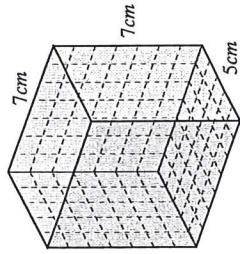
Volume and surface area of prisms (A) Answers

Find the volume and surface area of each prism.



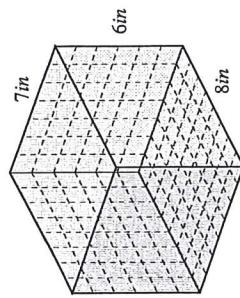
$$V: 3in \times 6in \times 7in = 126in^3$$

$$SA: 2 \times (3 + 6 + 7)in = 46in^2$$



$$V: 5cm \times 7cm \times 7cm = 245cm^3$$

$$SA: 2 \times (35 + 49 + 35)cm = 238cm^2$$

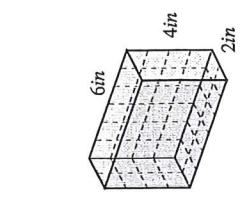


$$V: 8in \times 6in \times 7in = 336in^3$$

$$SA: 2 \times (56 + 42 + 48)in = 292in^2$$

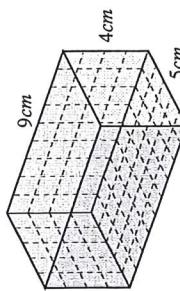
Volume and surface area of prisms (B) Answers

Find the volume and surface area of each prism.



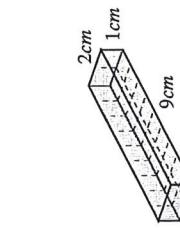
$$V: 2in \times 4in \times 6in = 48in^3$$

$$SA: 2 \times (12 + 24 + 8)in = 88in^2$$



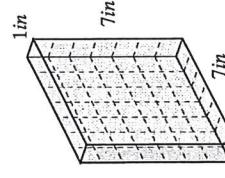
$$V: 2in \times 6in \times 4in = 48in^3$$

$$SA: 2 \times (12 + 24 + 8)in = 88in^2$$



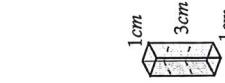
$$V: 5cm \times 9cm \times 4cm = 180cm^3$$

$$SA: 2 \times (45 + 36 + 20)cm = 202cm^2$$



$$V: 7in \times 1in \times 7in = 49in^3$$

$$SA: 2 \times (7 + 7 + 49)in = 126in^2$$

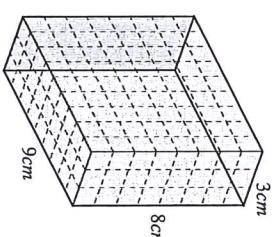


$$V: 1cm \times 1cm \times 3cm = 3cm^3$$

$$SA: 2 \times (1 + 3 + 3)cm = 14cm^2$$

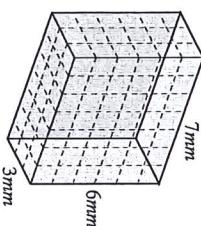
Volume and surface area of prisms (C) Answers

Find the volume and surface area of each prism.



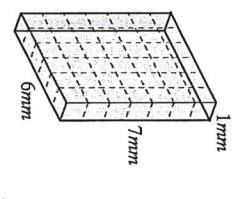
$$V: 9\text{cm} \times 3 \times 8\text{cm} = 216\text{cm}^3$$

$$SA: 2 \times (27 + 24 + 72)\text{cm} = 246\text{cm}^2$$



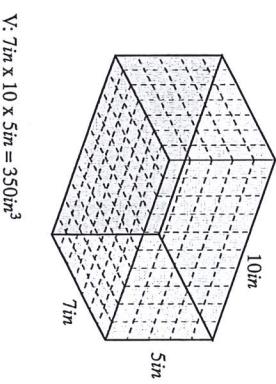
$$V: 3\text{mm} \times 7 \times 6\text{mm} = 126\text{mm}^3$$

$$SA: 2 \times (21 + 42 + 18)\text{mm} = 162\text{mm}^2$$



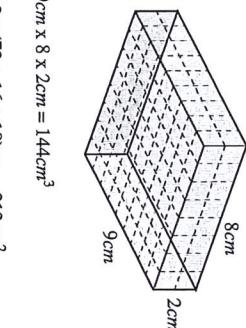
$$V: 6\text{mm} \times 1 \times 7\text{mm} = 42\text{mm}^3$$

$$SA: 2 \times (6 + 7 + 42)\text{mm} = 110\text{mm}^2$$



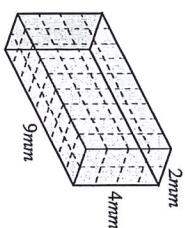
$$V: 7\text{in} \times 10 \times 5\text{in} = 350\text{in}^3$$

$$SA: 2 \times (70 + 50 + 35)\text{in} = 310\text{in}^2$$



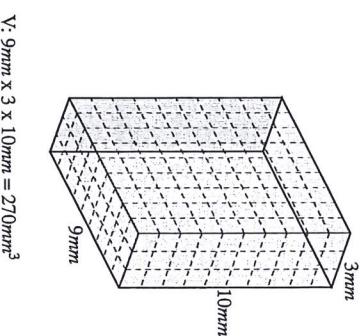
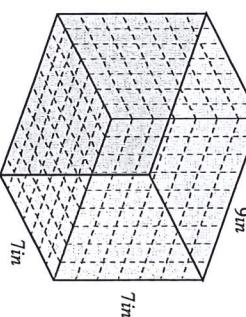
$$V: 9\text{cm} \times 8 \times 2\text{cm} = 144\text{cm}^3$$

$$SA: 2 \times (72 + 16 + 18)\text{cm} = 212\text{cm}^2$$



$$V: 9\text{mm} \times 2 \times 4\text{mm} = 72\text{mm}^3$$

$$SA: 2 \times (18 + 8 + 36)\text{mm} = 124\text{mm}^2$$



$$V: 9\text{mm} \times 3 \times 10\text{mm} = 270\text{mm}^3$$

$$SA: 2 \times (27 + 30 + 90)\text{mm} = 294\text{mm}^2$$

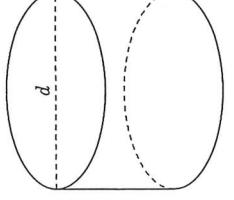
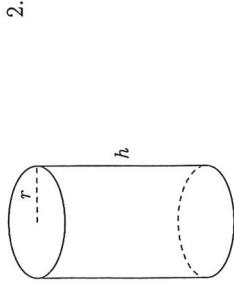
Volume and surface area of prisms (D) Answers

Find the volume and surface area of each prism.

Area and Volume of Cylinders (A) Answers

Calculate the surface area and volume for each cylinder.

$$\text{Surface Area} = (\pi r^2 \times 2) + (\pi d \times h) \quad \text{Volume} = \pi r^2 \times h \quad d = 2r$$

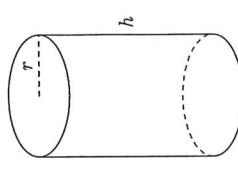
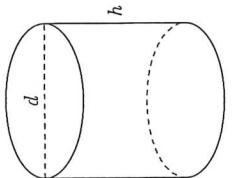
1. 
 2. 

$$\begin{aligned} r &= 1.2 \text{ km} & h &= 3.6 \text{ km} \\ \text{Surface Area} &= 36.19 \text{ km}^2 & \\ \text{Volume} &= 16.29 \text{ km}^3 \end{aligned}$$

$$\begin{aligned} d &= 12.6 \text{ cm} & h &= 7.5 \text{ cm} \\ \text{Surface Area} &= 546.26 \text{ cm}^2 & \\ \text{Volume} &= 935.17 \text{ cm}^3 \end{aligned}$$

Calculate the surface area and volume for each cylinder.

$$\text{Surface Area} = (\pi r^2 \times 2) + (\pi d \times h) \quad \text{Volume} = \pi r^2 \times h \quad d = 2r$$

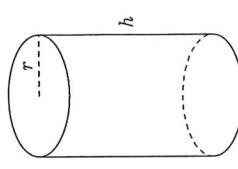
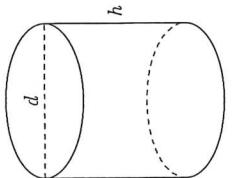
1. 
 2. 

$$\begin{aligned} d &= 15 \text{ cm} & h &= 15 \text{ cm} \\ \text{Surface Area} &= 1205.19 \text{ cm}^2 & \\ \text{Volume} &= 3207.37 \text{ cm}^3 \end{aligned}$$

Area and Volume of Cylinders (B) Answers

Calculate the surface area and volume for each cylinder.

$$\text{Surface Area} = (\pi r^2 \times 2) + (\pi d \times h) \quad \text{Volume} = \pi r^2 \times h \quad d = 2r$$

1. 
 2. 

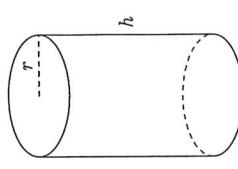
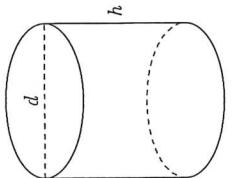
$$\begin{aligned} r &= 9.1 \text{ mm} & h &= 25.9 \text{ mm} \\ \text{Surface Area} &= 2001.19 \text{ mm}^2 & \\ \text{Volume} &= 6738.02 \text{ mm}^3 \end{aligned}$$

$$\begin{aligned} d &= 16.5 \text{ cm} & h &= 15 \text{ cm} \\ \text{Surface Area} &= 1205.19 \text{ cm}^2 & \\ \text{Volume} &= 3207.37 \text{ cm}^3 \end{aligned}$$

Area and Volume of Cylinders (B) Answers

Calculate the surface area and volume for each cylinder.

$$\text{Surface Area} = (\pi r^2 \times 2) + (\pi d \times h) \quad \text{Volume} = \pi r^2 \times h \quad d = 2r$$

1. 
 2. 

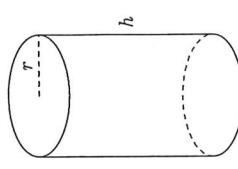
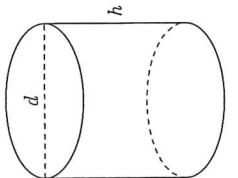
$$\begin{aligned} r &= 7.2 \text{ mm} & h &= 12.6 \text{ mm} \\ \text{Surface Area} &= 895.73 \text{ mm}^2 & \\ \text{Volume} &= 2052.04 \text{ mm}^3 \end{aligned}$$

$$\begin{aligned} d &= 24.3 \text{ nm} & h &= 30.6 \text{ nm} \\ \text{Surface Area} &= 3263.56 \text{ nm}^2 & \\ \text{Volume} &= 14,191.35 \text{ nm}^3 \end{aligned}$$

Area and Volume of Cylinders (B) Answers

Calculate the surface area and volume for each cylinder.

$$\text{Surface Area} = (\pi r^2 \times 2) + (\pi d \times h) \quad \text{Volume} = \pi r^2 \times h \quad d = 2r$$

1. 
 2. 

$$\begin{aligned} r &= 1.2 \text{ m} & h &= 18.6 \text{ m} \\ \text{Surface Area} &= 927.4 \text{ m}^2 & \\ \text{Volume} &= 2103.61 \text{ m}^3 \end{aligned}$$

$$\begin{aligned} d &= 18 \text{ ft} & h &= 27.2 \text{ ft} \\ \text{Surface Area} &= 511.12 \text{ ft}^2 & \\ \text{Volume} &= 27,686.23 \text{ ft}^3 \end{aligned}$$

Area and Volume of Cylinders (C) Answers

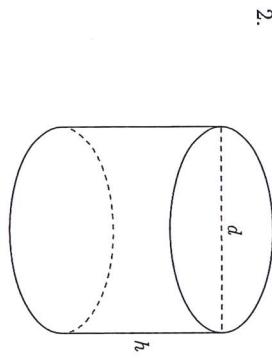
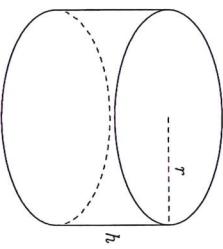
Calculate the surface area and volume for each cylinder.

$$\text{Surface Area} = (\pi r^2 \times 2) + (\pi d \times h)$$

$$\text{Volume} = \pi r^2 \times h$$

$$d = 2r$$

1.

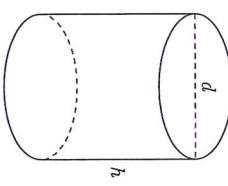
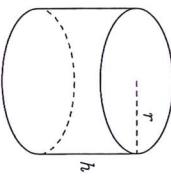


2.

$$\begin{aligned} r &= 2.3 \text{ mm} & h &= 2.4 \text{ mm} \\ \text{Surface Area} &= 67.92 \text{ mm}^2 \\ \text{Volume} &= 39.89 \text{ mm}^3 \end{aligned}$$

$$\begin{aligned} d &= 26.4 \text{ yd} & h &= 20.4 \text{ yd} \\ \text{Surface Area} &= 2786.72 \text{ yd}^2 \\ \text{Volume} &= 11,166.78 \text{ yd}^3 \end{aligned}$$

3.



4.

$$\begin{aligned} r &= 7.75 \text{ m} & h &= 10.5 \text{ m} \\ \text{Surface Area} &= 888.68 \text{ m}^2 \\ \text{Volume} &= 1981.27 \text{ m}^3 \end{aligned}$$

$$\begin{aligned} d &= 27.9 \text{ yd} & h &= 29.7 \text{ yd} \\ \text{Surface Area} &= 3825.94 \text{ yd}^2 \\ \text{Volume} &= 18,157.44 \text{ yd}^3 \end{aligned}$$

Area and Volume of Cylinders (D) Answers

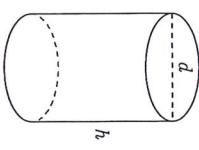
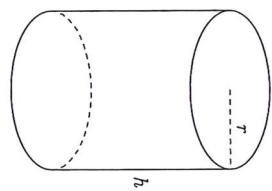
Calculate the surface area and volume for each cylinder.

$$\text{Surface Area} = (\pi r^2 \times 2) + (\pi d \times h)$$

$$\text{Volume} = \pi r^2 \times h$$

$$d = 2r$$

1.

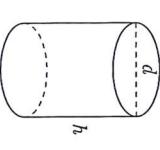
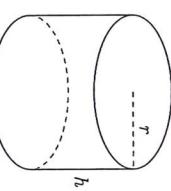


2.

$$\begin{aligned} d &= 4.6 \text{ in} & h &= 6 \text{ in} \\ \text{Surface Area} &= 119.95 \text{ in}^2 \\ \text{Volume} &= 99.71 \text{ in}^3 \end{aligned}$$

$$\begin{aligned} r &= 8.5 \text{ mm} & h &= 19 \text{ mm} \\ \text{Surface Area} &= 1468.69 \text{ mm}^2 \\ \text{Volume} &= 4312.62 \text{ mm}^3 \end{aligned}$$

3.



4.

$$\begin{aligned} r &= 6.6 \text{ yd} & h &= 8.8 \text{ yd} \\ \text{Surface Area} &= 638.62 \text{ yd}^2 \\ \text{Volume} &= 1204.26 \text{ yd}^3 \end{aligned}$$

$$\begin{aligned} d &= 10 \text{ cm} & h &= 12 \text{ cm} \\ \text{Surface Area} &= 534.07 \text{ cm}^2 \\ \text{Volume} &= 942.48 \text{ cm}^3 \end{aligned}$$

Name:

Volume of Cylinders and Rectangular Prisms

Complete your work on a lined sheet of paper and submit your worksheet with this page.

Volume of Cylinders – Questions

1. A cylinder has a radius of **3 cm** and a height of **10 cm**.
2. A cylinder has a radius of **5 cm** and a height of **12 cm**.
3. A cylinder has a radius of **2 cm** and a height of **8 cm**.
4. A cylinder has a radius of **7 cm** and a height of **6 cm**.
5. A cylinder has a radius of **4.5 cm** and a height of **9.5 cm**.
6. A cylinder has a radius of **6 cm** and a height of **15 cm**.
7. A cylinder has a radius of **8 cm** and a height of **11 cm**.
8. A cylinder has a radius of **2.5 cm** and a height of **7 cm**.
9. A cylinder has a radius of **9 cm** and a height of **13 cm**.
10. A cylinder has a radius of **3.5 cm** and a height of **14 cm**.
11. A cylinder has a radius of **4 cm** and a height of **5 cm**.
12. A cylinder has a radius of **5.5 cm** and a height of **9 cm**.
13. A cylinder has a radius of **6.5 cm** and a height of **8.5 cm**.
14. A cylinder has a radius of **1.8 cm** and a height of **12.5 cm**.
15. A cylinder has a radius of **7.2 cm** and a height of **10 cm**.
16. A cylinder has a radius of **2.25 cm** and a height of **7.5 cm**.
17. A cylinder has a radius of **4.75 cm** and a height of **6.25 cm**.
18. A cylinder has a radius of **3.25 cm** and a height of **11.5 cm**.
19. A cylinder has a radius of **8.5 cm** and a height of **9.8 cm**.
20. A cylinder has a radius of **6.8 cm** and a height of **13.2 cm**.

Volume of Rectangular Prisms – Questions

1. A prism measures **5 cm × 4 cm × 12 cm**.
2. A prism measures **7.5 cm × 6 cm × 5 cm**.
3. A prism measures **4 cm × 2.5 cm × 6.5 cm**.
4. A prism measures **9 cm × 7.5 cm × 4 cm**.
5. A prism measures **6.25 cm × 3.4 cm × 9 cm**.
6. A prism measures **11 cm × 4 cm × 8 cm**.
7. A prism measures **3.6 cm × 4.8 cm × 7.2 cm**.
8. A prism measures **8.2 cm × 6.1 cm × 3.4 cm**.
9. A prism measures **10 cm × 5 cm × 6 cm**.
10. A prism measures **4.5 cm × 2 cm × 5.5 cm**.
11. A prism measures **5.5 cm × 3.5 cm × 9.5 cm**.
12. A prism measures **12 cm × 4.5 cm × 3.3 cm**.
13. A prism measures **7 cm × 2.8 cm × 4.6 cm**.
14. A prism measures **6.75 cm × 3.25 cm × 8.1 cm**.
15. A prism measures **9.5 cm × 4.1 cm × 2.5 cm**.
16. A prism measures **3 cm × 3.6 cm × 10 cm**.

Name:

-
17. A prism measures $13 \text{ cm} \times 5.2 \text{ cm} \times 4.7 \text{ cm}$.
 18. A prism measures $7.25 \text{ cm} \times 4.75 \text{ cm} \times 6.8 \text{ cm}$.
 19. A prism measures $5.8 \text{ cm} \times 3.9 \text{ cm} \times 5.4 \text{ cm}$.
 20. A prism measures $8 \text{ cm} \times 6.5 \text{ cm} \times 4.2 \text{ cm}$.
-

Advanced Challenge Section

A. Cylinders with Diameter Given

Diameter (d) Height (h) Task

- 1 9 cm 12 cm Find the volume.
- 2 14 cm 10 cm Find the volume.
- 3 5.2 cm 7.5 cm Find the volume.

B. Cylinders with Circumference Given

Circumference (C) Height (h)

- 4 31.4 cm 11 cm Find the volume.
- 5 47.1 cm 6 cm Find the volume.
- 6 15.7 cm 20 cm Find the volume.

C. Reverse Problems – Rectangular Prisms

For each prism, the volume is given. List at least three different sets of whole-number edge lengths ($\ell \times w \times h$) that will work.

Volume (V)

- 1 120 cm^3
 - 2 210 cm^3
 - 3 96 cm^3
 - 4 180 cm^3
 - 5 168 cm^3
-

Name:

Answer Key

Answer Key

Note: Volumes are rounded to two decimal places.

Cylinders

1. 282.60 cm^3
2. 942.00 cm^3
3. 100.48 cm^3
4. 923.16 cm^3
5. 604.06 cm^3
6. $1\,694.40 \text{ cm}^3$
7. $2\,211.68 \text{ cm}^3$
8. 137.44 cm^3
9. $3\,307.38 \text{ cm}^3$
10. 539.00 cm^3
11. 251.20 cm^3
12. 852.79 cm^3
13. $1\,130.13 \text{ cm}^3$
14. 127.15 cm^3
15. $1\,628.93 \text{ cm}^3$
16. 119.06 cm^3
17. 442.33 cm^3
18. 381.55 cm^3
19. $2\,219.61 \text{ cm}^3$
20. $1\,907.61 \text{ cm}^3$

Rectangular Prisms

1. 240.00 cm^3
2. 225.00 cm^3
3. 65.00 cm^3
4. 270.00 cm^3
5. 191.25 cm^3
6. 352.00 cm^3
7. 124.42 cm^3
8. 169.78 cm^3
9. 300.00 cm^3
10. 49.50 cm^3
11. 182.88 cm^3
12. 178.20 cm^3
13. 90.16 cm^3
14. 177.00 cm^3
15. 97.38 cm^3

16. 108.00 cm^3
17. 318.64 cm^3
18. 234.55 cm^3
19. 122.18 cm^3
20. 218.40 cm^3

Advanced

21. A. Cylinders (Diameter)

Volume (rounded)

- 1 763.02 cm^3
- 2 $1\,538.60 \text{ cm}^3$
- 3 159.20 cm^3

22. B. Cylinders (Circumference)

Volume (rounded)

- 4 863.50 cm^3
- 5 $1\,059.45 \text{ cm}^3$
- 6 392.50 cm^3

23. C. Rectangular Prisms – Sample Solutions

24. (Any three valid sets earn full marks.)

Possible Edge Lengths

- | | | |
|--------------------------------|-------------------------------|-------------------------------|
| 1 $4 \times 5 \times 6$ | 3 $\times 4 \times 10$ | 2 $\times 6 \times 10$ |
| 2 $5 \times 6 \times 7$ | 3 $\times 5 \times 14$ | 2 $\times 7 \times 15$ |
| 3 $4 \times 4 \times 6$ | 3 $\times 4 \times 8$ | 2 $\times 6 \times 8$ |
| 4 $5 \times 6 \times 6$ | 3 $\times 6 \times 10$ | 4 $\times 5 \times 9$ |
| 5 $4 \times 7 \times 6$ | 3 $\times 7 \times 8$ | 2 $\times 6 \times 14$ |

