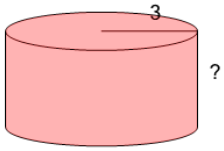
mobius

Math worksheet on *'Volume of a Cylinder - Calculate Prism Side (Pi Ratio) from Volume and Sides (Level 1)'*. Part of a broader unit on *'Geometry - Volume Logic with 3D Shapes - Intro'*

Learn online: app.mobius.academy/math/units/geometry_volume_logic_intro/

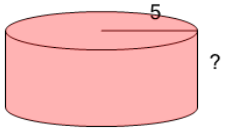
**1** What is the length of the missing side of this Cylinder?




V=27

| a | b | c |
|---|---|---|
| $5 \cdot \pi$ | $4$ | $3$ |
| **d** | **e** | **f** |
| $2 \cdot \pi$ | $3 \cdot \pi$ | $\frac{3}{\pi}$ |

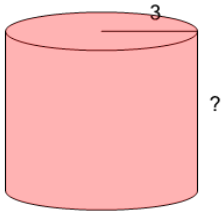
**2** What is the length of the missing side of this Cylinder?




V=100

| a | b | c |
|---|---|---|
| $5 \cdot \pi$ | $4$ | $4 \cdot \pi$ |
| **d** | **e** | **f** |
| $\frac{4}{\pi}$ | $1 \cdot \pi$ | $1$ |

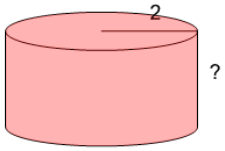
**3** What is the length of the missing side of this Cylinder?




V=45

| a | b | c |
|---|---|---|
| $5$ | $14 \cdot \pi$ | $\frac{5}{\pi}$ |
| **d** | **e** | **f** |
| $10 \cdot \pi$ | $5 \cdot \pi$ | $13 \cdot \pi$ |

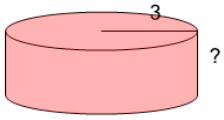
**4** What is the length of the missing side of this Cylinder?




V=8

| a | b | c |
|---|---|---|
| $3 \cdot \pi$ | $\frac{6}{\pi}$ | $2$ |
| **d** | **e** | **f** |
| $2 \cdot \pi$ | $\frac{2}{\pi}$ | $\frac{3}{\pi}$ |

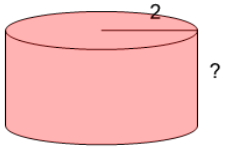
**5** What is the length of the missing side of this Cylinder?




V=18

| a | b | c |
|---|---|---|
| $3$ | $2$ | $\frac{1}{\pi}$ |
| **d** | **e** | **f** |
| $10 \cdot \pi$ | $\frac{2}{\pi}$ | $2 \cdot \pi$ |

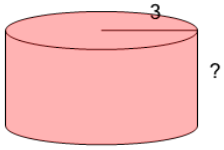
**6** What is the length of the missing side of this Cylinder?




V=8

| a | b | c |
|---|---|---|
| $\frac{2}{\pi}$ | $8$ | $2 \cdot \pi$ |
| **d** | **e** | **f** |
| $2$ | $10$ | $5$ |

**7** What is the length of the missing side of this Cylinder?




V=27

| a | b | c |
|---|---|---|
| $\frac{6}{\pi}$ | $\frac{3}{\pi}$ | $3 \cdot \pi$ |
| **d** | **e** | **f** |
| $\frac{5}{\pi}$ | $3$ | $\frac{1}{\pi}$ |