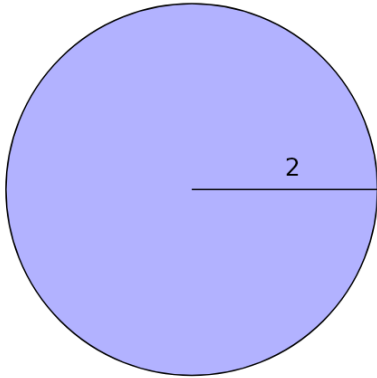
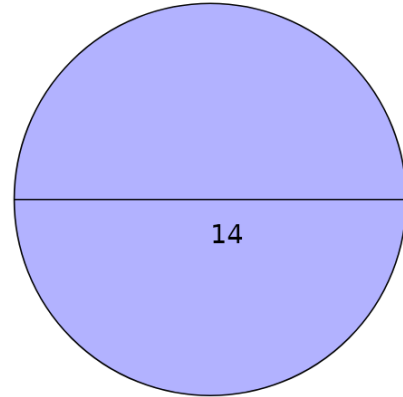


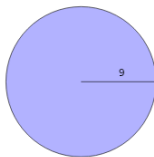
Calculate the surface area of cylinders

1What is the area of the circle as a function of π 

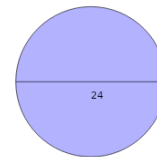
A	10π	B	6π
C	4π	D	1π
E	7π	F	2π

2What is the area in terms of π ?

A	49π	B	81π
C	45π	D	57π
E	85π	F	37π

3Find the area without using a calculator. Remember that π is just a bit more than 3.

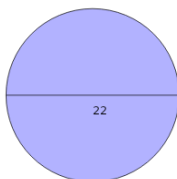
A 449.25	B 254.47	C 162
D 56.55	E 490.09	F 408.41

4Find the area without using a calculator. Remember that π is just a bit more than 3.

A 452.39	B 703.72	C 37.7
D 144	E 288	F 530.93

5

Find the area



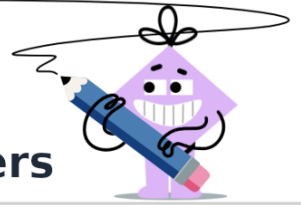
A 34.56	B 380.13	C 571.77
D 242	E 69.12	F 121

6

What shape would this formula calculate the surface area for?

$$SA = 4\pi r^2$$

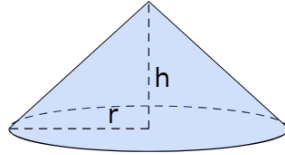
A Cylinder	B Sphere
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Calculate the surface area of cylinders

7

What is the formula for the surface area of this Cone?



A

$$SA = 2\pi r h + 2\pi r^2$$

B

$$SA = \pi r(r + \sqrt{h^2 + r^2})$$

8

A Cone with radius 4 and a height of 2

A

$$SA = 4 \cdot 5 + 4\sqrt{\left(\frac{5}{2}\right)^2 + 2^2} + 5\sqrt{\left(\frac{4}{2}\right)^2 + 2^2}$$

B

$$SA = \pi \cdot 4(4 + \sqrt{2^2 + 4^2})$$

9

A Sphere with radius 3

A

$$SA = \pi \cdot 3 \cdot (3 + \sqrt{5^2 + 3^2})$$

B

$$SA = 4\pi \cdot 3^2$$

10

A Cylinder with radius 5 and height 2

A

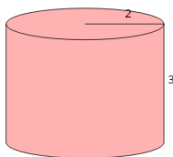
$$SA = 2\pi \cdot 5 \cdot 2 + 2\pi 5^2$$

B

$$SA = \pi \cdot 5^2 \cdot 2$$

11

What is the surface area of this Cylinder?



A

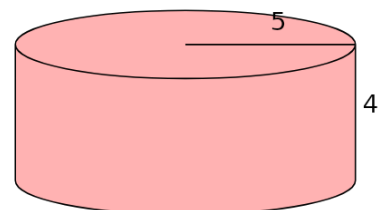
$$SA = 2\pi \cdot 3 \cdot 2 + 2\pi 3^2$$

B

$$SA = 2\pi \cdot 2 \cdot 3 + 2\pi 2^2$$

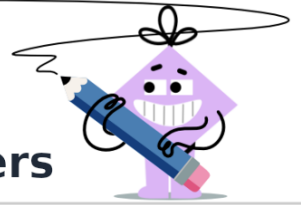
12

What is the surface area of this Cylinder?



A 282.74

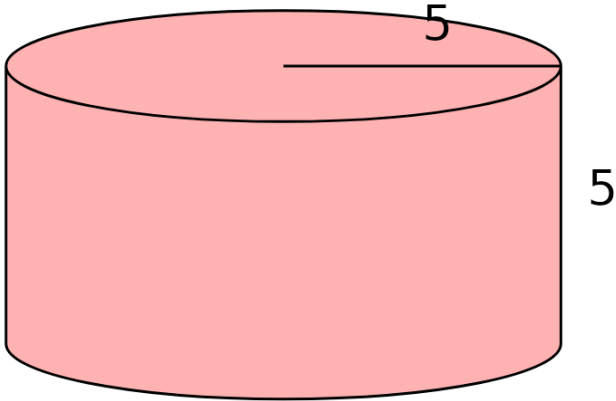
B 281.39



Calculate the surface area of cylinders

13

What is the surface area of this Cylinder?



A 100π

B 30π

C 50π

D 120π

E 130π

F 110π

14

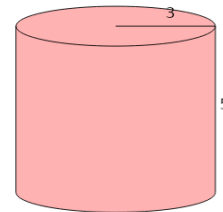
A Cone with radius 2 and a height of 5

A 49.1

B 46.4

15

What is the surface area of this Cylinder?



A 150.8

B 149.45

16

A Cylinder with radius 5 and height 2

A 222.61

B 219.91