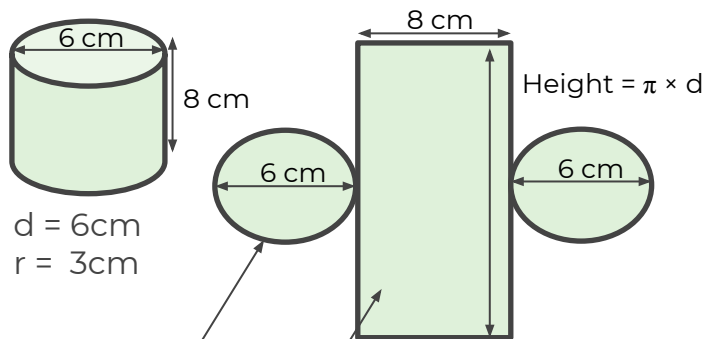# Surface area of a cylinder

Miss Parnham

Surface area of a cylinder
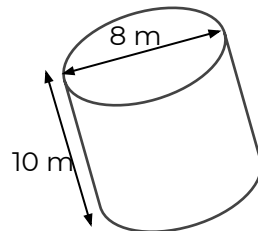
1. Use the steps below to find surface area of the cylinder to 3 significant figures.
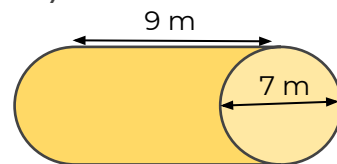
6 cm

8 cm

8 cm

Height = π × d

6 cm

6 cm

d = 6cm
r = 3cm

a) Area of the circle =
b) Area of the rectangle =
c) Total surface area of cylinder =
   2 × area of circle + area of rectangle =

2. Find the surface area of these cylinders to 3 significant figures.

a)

8 m

10 m

b)

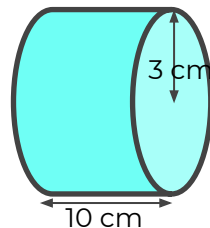9 m

7 m

3. Find the surface area of these cylinders to 3 significant figures.

a)

3 cm

10 cm

b)

20 cm

1 cm

Answers

Surface area of a cylinder

1. Use the steps below to find surface area of the cylinder to 3 significant figures.

6 cm

8 cm

8 cm

Height = $\pi \times d$

6 cm

6 cm

d = 6cm
r = 3cm

a) Area of the circle = 28.27433... cm²
b) Area of the rectangle = 150.79644... cm²
c) Total surface area of cylinder = 207 cm²
   2 × area of circle + area of rectangle =

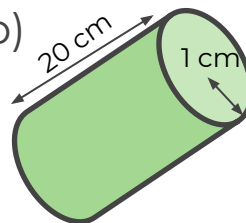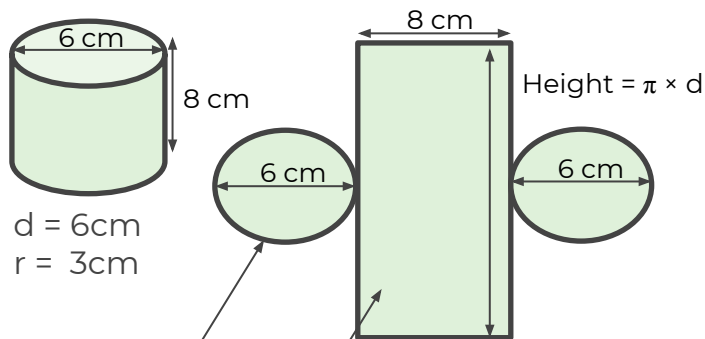2. Find the surface area of these cylinders to 3 significant figures.

a)
8 m

10 m

352 m²

b)
9 m

7 m

275 m²

3. Find the surface area of these cylinders to 3 significant figures.

a)
3 cm

10 cm
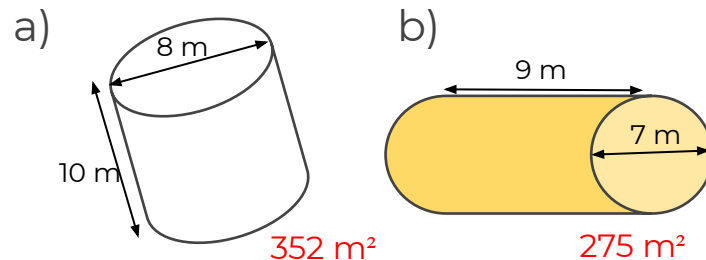
245 cm²

b)
20 cm

1 cm

132 cm²