

# Surface area of prisms

91a

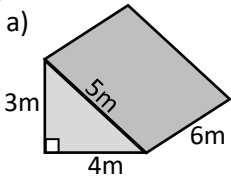


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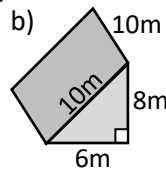
Name: \_\_\_\_\_



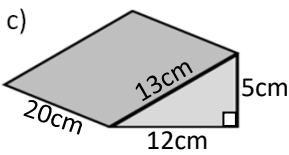
Calculate the surface area of these **prisms**. State the units of your answer.



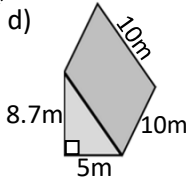
**84m<sup>2</sup>**



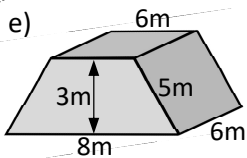
**288m<sup>2</sup>**



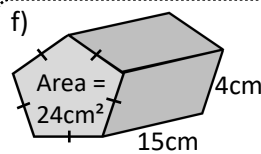
**660cm<sup>2</sup>**



**280.5m<sup>2</sup>**

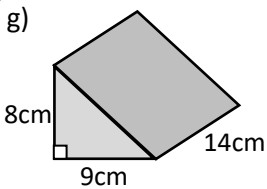


**186m<sup>2</sup>**

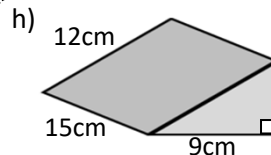


**348cm<sup>2</sup>**

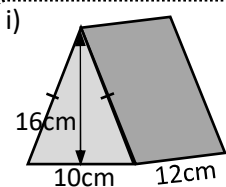
Calculate the surface area of these **prisms**. State the units of your answer.



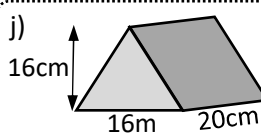
**478.6cm<sup>2</sup>**



**505.5cm<sup>2</sup>**



**682.3cm<sup>2</sup>**



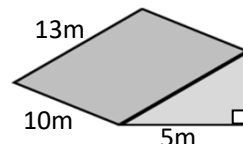
**1291.5cm<sup>2</sup>**

**Exam question:**

A roof section which is in the shape of a triangular prism (as shown) is to be painted.

The paint costs £4 per m<sup>2</sup>.

Calculate the cost of painting the section.



**£1240**



# Surface area of cylinders

91b



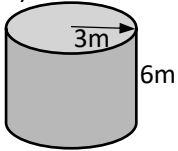
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Name: \_\_\_\_\_



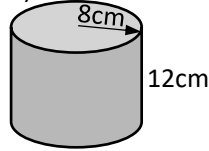
Calculate the surface area of these **cylinders**. State the units of your answer.

a)



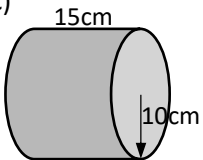
$$169.6\text{m}^2$$

b)



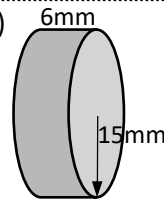
$$1005.3\text{cm}^2$$

c)



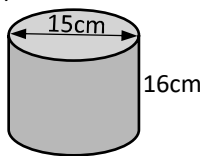
$$1570.8\text{cm}^2$$

d)



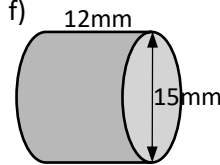
$$1979.2\text{mm}^2$$

e)



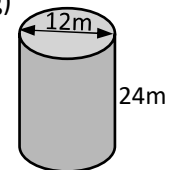
$$1107.4\text{cm}^2$$

f)



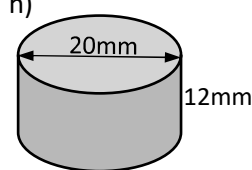
$$918.9\text{mm}^2$$

g)



$$1131.0\text{m}^2$$

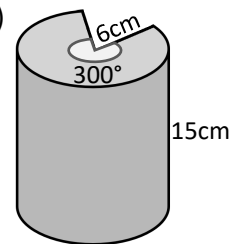
h)



$$1382.3\text{mm}^2$$

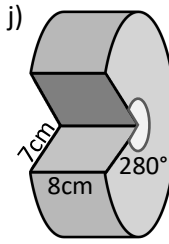
Calculate the surface area of these **partial cylinders**. State the units of your answer.

i)



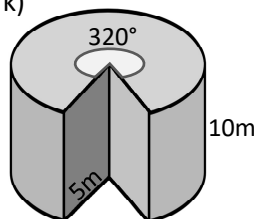
$$839.7\text{cm}^2$$

j)



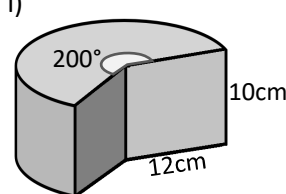
$$625.1\text{cm}^2$$

k)



$$518.9\text{m}^2$$

l)



$$1161.5\text{cm}^2$$

**Exam question:**

A cylindrical jam jar has a diameter of 10cm and a height of 14cm.

Write down an *expression* for the **surface area** of the cylinder in terms of  $\pi$ .

Give your answer in its simplest form.

$$190\pi \text{ cm}^2$$

