

Problem Solving – EGYPTIAN TOMB Set 2

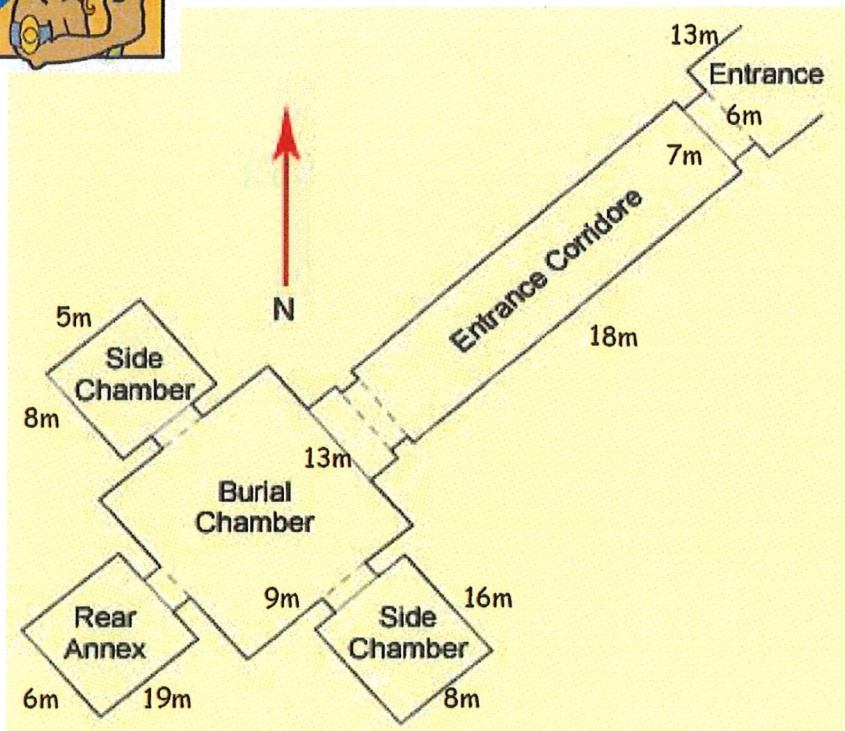
Area, circumference

<http://www.learnersgrid.com>

Egyptian Tomb Set 2 [1]



Egyptian Area The Tomb of Ty



Find the area of
The following rooms

Side chamber 1 =
Entrance =
Side Chamber 2 =
Rear annex =
Burial chamber =
Entrance Corridore =

What is the TOTAL area
of this tomb?

Egyptian Tomb Set 2 [2]



A farmer uses some fencing to
construct a square pen to hold some
goats.

The area of the pen is 484m^2 .

What is the length of each side of this
pen?

Problem Solving – EGYPTIAN TOMB Set 2

Area, circumference

<http://www.learnersgrid.com>

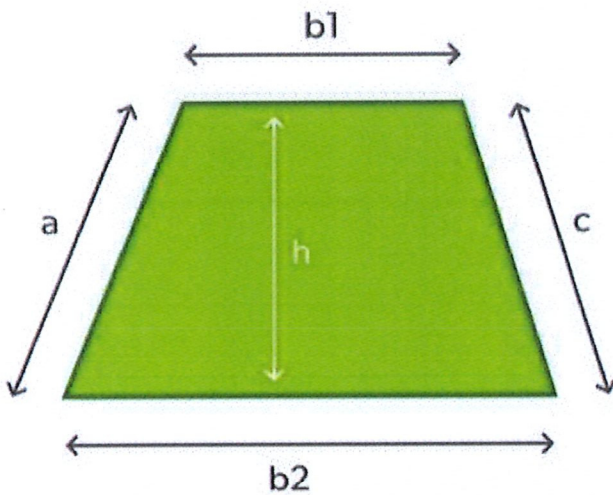
Egyptian Tomb Set 2 [3]



A rectangular swimming pool has an area of 600m^2 and a width of 15m .

Calculate the length of the pool.

Egyptian Tomb Set 2 [4]



Lozzy Painwater has a lawn which is a trapezium shape (see left).

The distance from side b_1 to side b_2 is 30m .

The length of the side labelled " b_1 " is 10.5m .

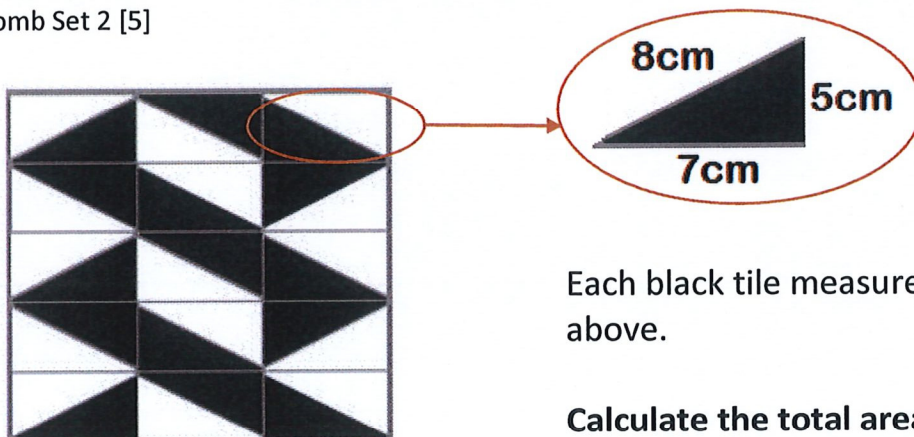
The length of the side labelled " b_2 " is 15.5m .

The length of the side labelled " a " is 25.2m .

The length of the side labelled " c " is 25.6m .

Give the area of Lozzy's lawn (round answer to 1 d.p., if necessary).

Egyptian Tomb Set 2 [5]



Each black tile measures as per the diagram above.

Calculate the total area of black tiles in the pattern to the left (round answer to 1 d.p., if necessary).

Problem Solving – EGYPTIAN TOMB Set 2

Area, circumference

<http://www.learnersgrid.com>

Egyptian Tomb Set 2 [6]



Vietnam produced some unique-looking postage stamps.

Use the information to the left to calculate the total area of the all four stamps combined (round answer to 1 d.p., if necessary).

Egyptian Tomb Set 2 [7]



A lounge in a hotel is rectangular in shape and measures 25m by 18m.

In the centre of the floor, a large rectangular area measuring 7m by 5m has been tiled for some funky dancing. The rest of the floor is carpeted.

Calculate the area of the carpet.

Problem Solving – EGYPTIAN TOMB Set 2

Area, circumference

<http://www.learnersgrid.com>

Egyptian Tomb Set 2 [8]



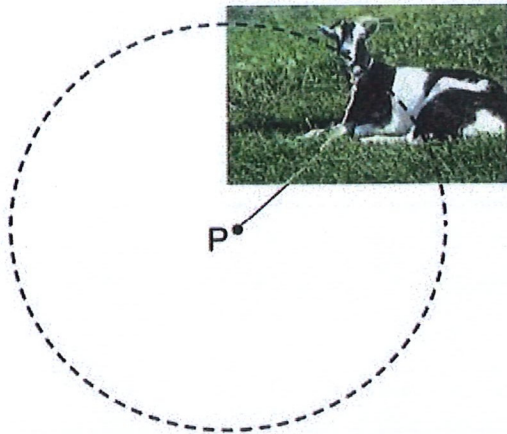
Gorzo the clown enjoys riding his unicycle. The wheel of his unicycle has a radius of 360mm.

If Gorzo pedals so that the wheel makes exactly 8 full rotations, how far has he travelled in...

- a) millimetres?**
- b) centimetres?**
- c) metres?**

(Round each answer to 1 d.p., if necessary.)

Egyptian Tomb Set 2 [9]



Billy the goat is tied to a stake via a chain. This means Billy grazes a circular area.

Billy's chain is 4m long. By craning his neck, Billy can reach 25cm further.

What is the total area Billy can graze?

(Round answer to 1 d.p., if necessary.)

Problem Solving – EGYPTIAN TOMB Set 2

Area, circumference

<http://www.learnersgrid.com>

Egyptian Tomb Set 2 [10]



The floor of a kitchen is a perfect rectangle which measures 4m by 6m.

It has been tiled with cork tiles.

Each cork tile measures exactly 200mm by 200mm.

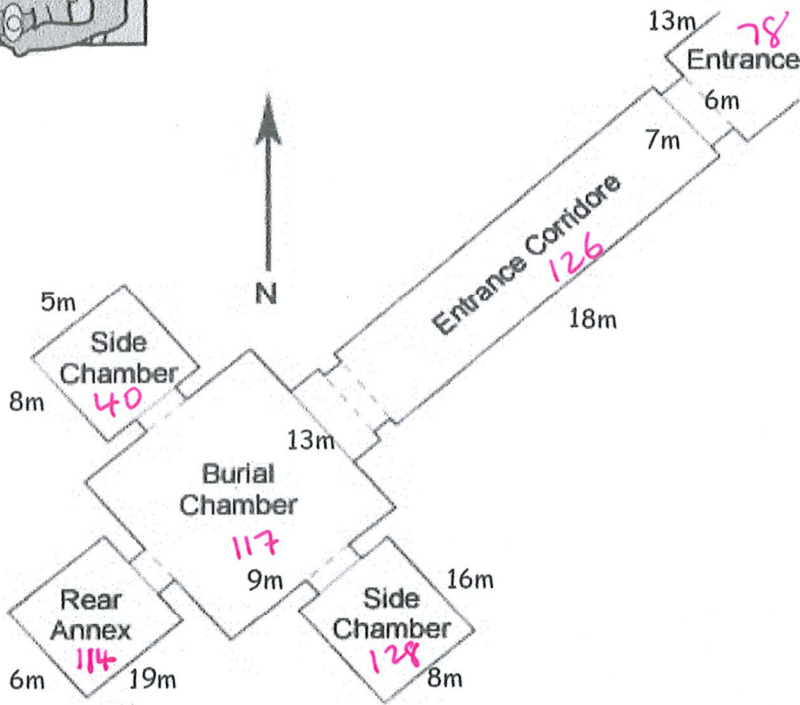
How many cork tiles – exactly - will be needed to cover the entire floor area?

ANSWERS

[1]



Egyptian Area
The Tomb of Ty



Find the area of
The following rooms

- Side chamber 1 = 40
- Entrance = 78
- Side Chamber 2 = 128
- Rear annex = 114
- Burial chamber = 117
- Entrance Corridore = 126

What is the TOTAL area
of this tomb?

603m^2

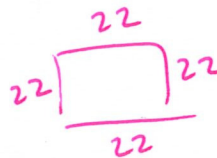
[2]



A farmer uses some fencing to
construct a square pen to hold some
goats.

The area of the pen is $\sqrt{484\text{m}^2}$.

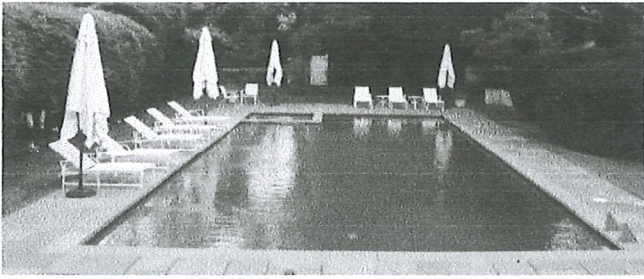
What is the length of each side of this
pen?



22m

ANSWERS

[3]



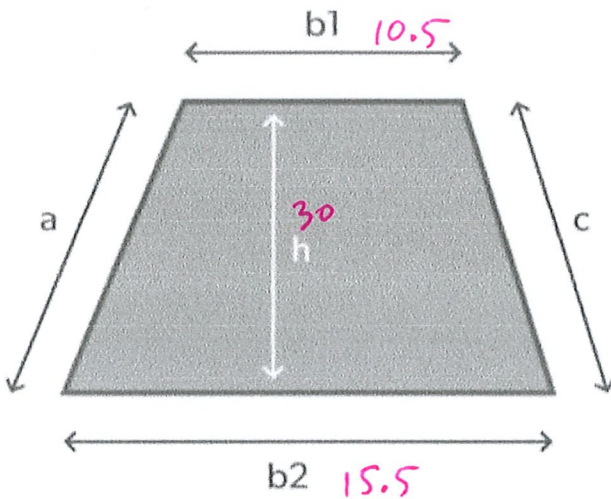
A rectangular swimming pool has an area of 600m^2 and a width of 15m .

Calculate the length of the pool.

$$\frac{600}{15} = \boxed{40\text{m}}$$

[4]

$$\frac{30(26)}{2} = \frac{780}{2} = 390$$



Lozzy Painwater has a lawn which is a trapezium shape (see left).

The distance from side b_1 to side b_2 is 30m .

The length of the side labelled " b_1 " is 10.5m .

The length of the side labelled " b_2 " is 15.5m .

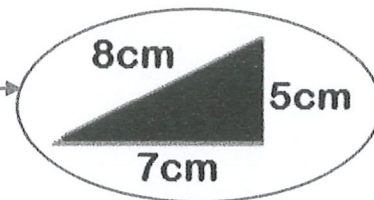
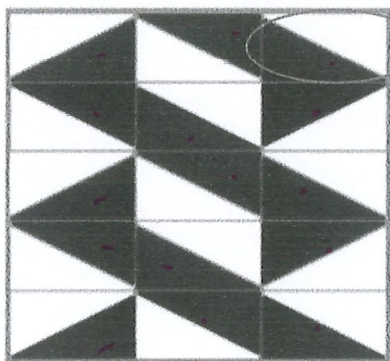
The length of the side labelled " a " is 25.2m .

The length of the side labelled " c " is 25.6m .

Give the area of Lozzy's lawn (round answer to 1 d.p., if necessary).

$$\boxed{390\text{m}^2}$$

[5]



$$\frac{35}{2} = 17.5 \times 15$$

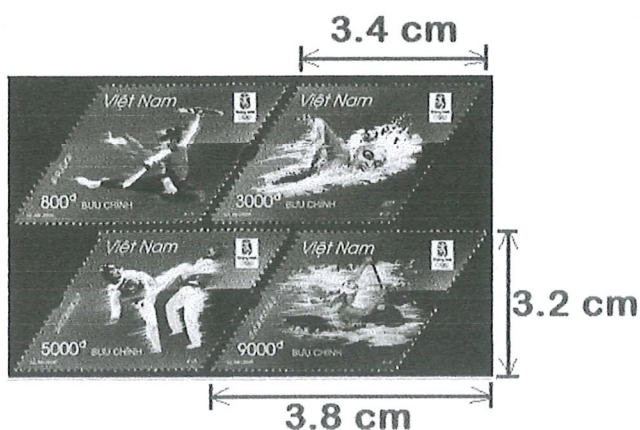
Each black tile measures as per the diagram above.

Calculate the total area of black tiles in the pattern to the left (round answer to 1 d.p., if necessary).

$$\boxed{262.5\text{cm}^2}$$

ANSWERS

[6]



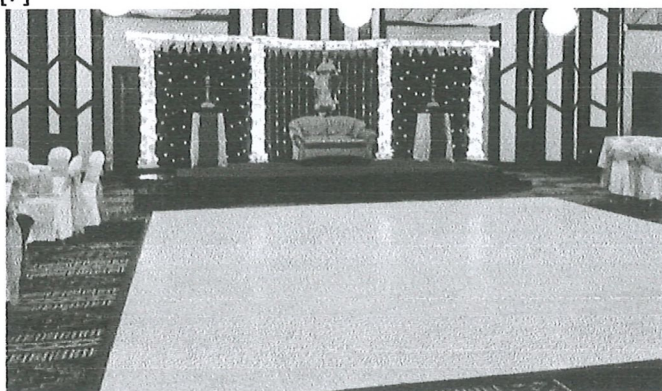
Vietnam produced some unique-looking postage stamps.

Use the information to the left to calculate the total area of the all four stamps combined (round answer to 1 d.p., if necessary).

$$3.4 \times 3.2 \times 4 = 43.52$$

$$= \boxed{43.5 \text{ cm}^2}$$

[7]



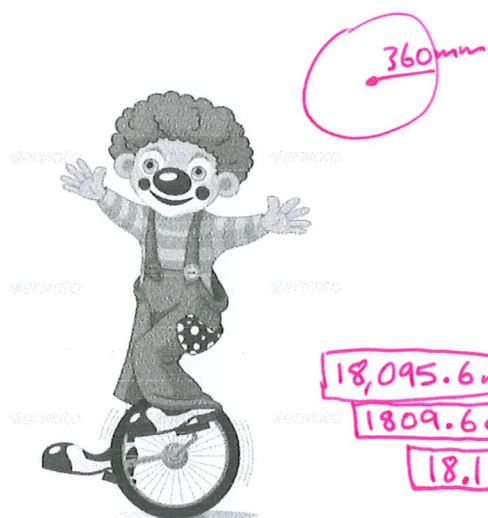
A lounge in a hotel is rectangular in shape and measures 25m by 18m. $= 450$

In the centre of the floor, a large rectangular area measuring 7m by 5m has been tiled for some funky dancing. $- 35$
The rest of the floor is carpeted.

Calculate the area of the carpet.

$$\boxed{415 \text{ m}^2}$$

[8]



Gorzo the clown enjoys riding his unicycle. The wheel of his unicycle has a radius of 360mm.

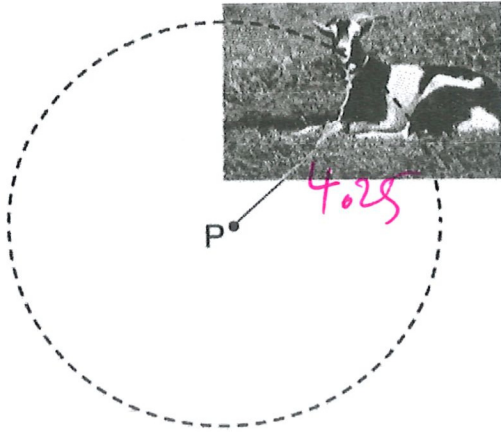
If Gorzo pedals so that the wheel makes exactly 8 full rotations, how far has he travelled in...

- a) millimetres? $18,095.6 \text{ mm}$
- b) centimetres? 1809.6 cm
- c) metres? 18.1 m

(Round each answer to 1 d.p., if necessary).

ANSWERS

[9]



Billy the goat is tied to a stake via a chain. This means Billy grazes a circular area.

Billy's chain is 4m long. By craning his neck, Billy can reach 25cm further.

What is the total area Billy can graze (round answer to 1 d.p., if necessary)?

$$\boxed{56.7 \text{ m}^2}$$

[10]



The floor of a kitchen is a perfect rectangle which measures 4m by 6m. $= 24 \text{ m}^2$

It has been tiled with cork tiles.

Each cork tile measures exactly 200mm by 200mm. $.2 \times .2 = 0.04$

How many cork tiles – exactly - will be needed to cover the entire floor area?

$$\frac{24}{0.04} = \boxed{600}$$