

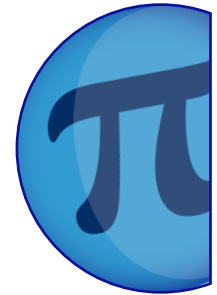


# How Long Is a Metre?

NAME: .....

CLASS: .....

DATE: .....



## Basic

1) Estimate the length of each of the lines below in centimetres (cm).

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_
- d) \_\_\_\_\_

Measure each line to check how close your estimates are.

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_
- d) \_\_\_\_\_

2) Estimate the following in your classroom:

- a) length of the room
- b) height of the room
- c) height of the door

3) Estimate the following:

- a) height of a football goal
- b) width of a football goal
- c) width of a football pitch
- d) length of a football pitch

If possible, measure the actual sizes and compare these with your estimates.



# How Long Is a Metre?

## Basic

4) Change the following from centimetres (cm) to millimetres (mm):

- a) 3cm                      b) 10cm                      c) 7cm                      d) 5.1cm                      e) 0.8cm

5) Change the following from millimetres (mm) to centimetres (cm):

- a) 80mm                      b) 90mm                      c) 69mm                      d) 135mm                      e) 2mm

6) Change the following from metres (m) to centimetres (cm):

- a) 4m                      b) 2.7m                      c) 8.5m                      d) 2.81m                      e) 10.78m

7) Change the following from centimetres (cm) to metres (m):

- a) 200cm                      b) 124cm                      c) 98cm                      d) 226cm                      e) 4000cm

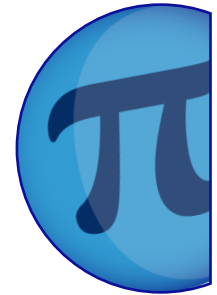


# How Long Is a Metre?

NAME: .....

CLASS: .....

DATE: .....



## Core

1) Change the following from centimetres (cm) to millimetres (mm):

- a) 3cm                      b) 10cm                      c) 7cm                      d) 5.1cm                      e) 0.8cm

2) Change the following from millimetres (mm) to centimetres (cm):

- a) 80mm                      b) 90mm                      c) 69mm                      d) 135mm                      e) 2mm

3) Change the following from metres (m) to centimetres (cm):

- a) 4m                      b) 2.7m                      c) 8.5m                      d) 2.81m                      e) 10.78m

4) Change the following from centimetres (cm) to metres (m):

- a) 200cm                      b) 124cm                      c) 98cm                      d) 226cm                      e) 4000cm

5) Change the following from kilometres (km) to metres (m):

- a) 5km                      b) 9.1km                      c) 16km                      d) 5.5km                      e) 13.44km



# How Long Is a Metre?

## Core

6) Change the following from metres (m) to kilometres (km):

a) 7000m

b) 4000m

c) 3520m

d) 11,000m

e) 1624m

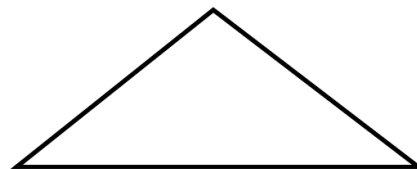
7) Five friends measure their heights. Jill is 1.62m, Kasim is 146cm, Gemma is 147cm, Pat is 1.36m and Andrew is 1.55m. What is their combined height?

8) By measuring the appropriate sizes, calculate the perimeter of the following shapes (give your answers in centimetres):

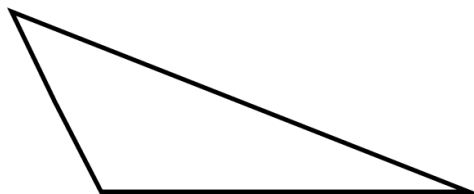
a)



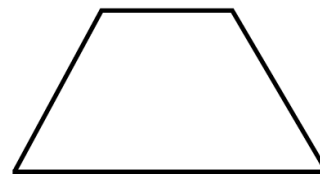
b)



c)



d)



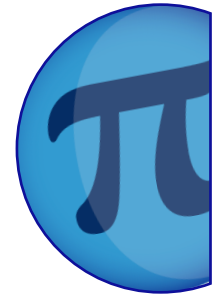


# How Long Is a Metre?

NAME: .....

CLASS: .....

DATE: .....



## Advanced

1) Change the following from metres (m) to centimetres (cm):

a) 4m

b) 2.7m

c) 8.5m

d) 2.81m

e) 10.78m

2) Change the following from centimetres (cm) to metres (m):

a) 200cm

b) 124cm

c) 98cm

d) 226cm

e) 4000cm

3) Change the following from kilometres (km) to metres (m):

a) 5km

b) 9.1km

c) 16km

d) 5.5km

e) 13.44km

4) Change the following from metres (m) to kilometres (km):

a) 7000m

b) 4000m

c) 3520m

d) 11,000m

e) 1624m



# How Long Is a Metre?

## Advanced

5) Change the following from square metres ( $m^2$ ) to square centimetres ( $cm^2$ ):

a)  $2m^2$

b)  $5m^2$

c)  $2.5m^2$

d)  $12.1m^2$

e)  $1.78m^2$

6) Change the following from square centimetres ( $cm^2$ ) to square metres ( $m^2$ ):

a)  $50,000cm^2$

b)  $124,000cm^2$

c)  $9800cm^2$

d)  $22,600cm^2$

7) Complete the following table:

Length of square (cm)	Perimeter of square (cm)	Area of square ( $cm^2$ )
1		
2		
4		
8		
16		



# How Long Is a Metre?

## ANSWERS

### Basic

- 1) a) 5.6cm      b) 3.5cm      c) 11.5cm      d) 9.5cm  
4) a) 30mm      b) 100mm      c) 70mm      d) 51mm      e) 8mm  
5) a) 8cm      b) 9cm      c) 6.9cm      d) 13.5cm      e) 0.2cm  
6) a) 400cm      b) 270cm      c) 850cm      d) 281cm      e) 1078cm  
7) a) 2m      b) 1.24m      c) 0.98m      d) 2.26m      e) 40m

### Core

- 1) a) 30mm      b) 100mm      c) 70mm      d) 51mm      e) 8mm  
2) a) 8cm      b) 9cm      c) 6.9cm      d) 13.5cm      e) 0.2cm  
3) a) 400cm      b) 270cm      c) 850cm      d) 281cm      e) 1078cm  
4) a) 2m      b) 1.24m      c) 0.98m      d) 2.26m      e) 40m  
5) a) 5000m      b) 9100m      c) 16,000m      d) 5500m      e) 13,440m  
6) a) 7km      b) 4km      c) 3.52km      d) 11km      e) 1.624km  
7) 7.46m  
8) a) 11.8cm      b) 11.4cm      c) 13.3cm      d) 10.1cm

### Advanced

- 1) a) 400cm      b) 270cm      c) 850cm      d) 281cm      e) 1078cm  
2) a) 2m      b) 1.24m      c) 0.98m      d) 2.26m      e) 40m  
3) a) 5000m      b) 9100m      c) 16,000m      d) 5500m      e) 13,440m  
4) a) 7km      b) 4km      c) 3.52km      d) 11km      e) 1.624km  
5) a) 20,000cm<sup>2</sup>      b) 50,000cm<sup>2</sup>      c) 25,000cm<sup>2</sup>      d) 121,000cm<sup>2</sup>      e) 17,800cm<sup>2</sup>  
6) a) 5m<sup>2</sup>      b) 12.4m<sup>2</sup>      c) 0.98m<sup>2</sup>      d) 2.26m<sup>2</sup>  
7)

Length of square (cm)	Perimeter of square (cm)	Area of square (cm <sup>2</sup> )
1	4	1
2	8	4
4	16	16
8	32	64
16	64	256