



Aberdare Community School  
Mathematics Department

WJEC GCSE  
**Foundation – Non Calculator**  
Shape

## **Metric units**

Name: .....

Set: .....

Date: .....

Teacher: .....

7. (a) Which metric unit is best used to measure

- (i) the length of a football pitch, .....
- (ii) the weight of a bag of potatoes, .....
- (iii) the amount of petrol in the petrol tank of a car, .....
- (iv) the area of the floor of a classroom? .....

[4]

2. Which **metric unit** is **best used** to measure

- (i) the volume of water in a bucket, .....
- (ii) the area of the floor of a classroom, .....
- (iii) the distance from Llandudno to Swansea, .....
- (iv) the weight of an egg? .....

[4]

3. Which **metric unit** is **best used** to measure

the distance from Berlin to Paris, .....

the area of the cover of a book, .....

the volume of medicine on a teaspoon, .....

the weight of a man? .....

[4]

2. Write down the **metric unit** that is **best used** to measure

the weight of ten sheets of paper, .....

the volume of tea in a cup, .....

the height of a building, .....

the area of the ceiling in a classroom. ....

[4]

3. Which **metric unit** is **best used** to measure

the distance from Rome to Paris, .....

the volume of water used for a shower, .....

the area of a tennis court, .....

the weight of a piece of toast? .....

[4]

**Circle** the quantity that is the appropriate estimate for the following.

Volume of a kettle	1 litre	100 ml	$10\text{ cm}^3$	1 cl
Weight of a woman	60 g	60 kg	60 mg	600 kg
Distance from London to Paris	3400 km	340 km	34 km	3.4 km
Area of this page	$600\text{ cm}^2$	$6\text{ m}^2$	$60\text{ mm}^2$	$600\text{ cm}^3$

[4]

- (b) Some mobile phones can convert measurements.  
Convert 600 metres per minute to kilometres per hour.  
**You must show all your working.**

.....

.....

.....

.....

.....



(h) Christina decides to run a 10 mile race but usually measures her distance in kilometres.



The following rule is used to change from kilometres to miles.

$$\text{Number of miles} = 5 \times \text{Number of kilometres} \div 8$$

Calculate the number of kilometres that Christina will run in the 10 mile race.

.....

.....

.....

.....

[2]

2. Write down the metric unit that is best used to measure

the weight of an egg, .....

the width of a football field, .....

the distance from Rome to Venice, .....

the volume of a petrol tank. ....

[4]



2. **Circle** the quantity that is the appropriate estimate for each of the following.

Weight of a man	80 g	800 kg	80 mg	80 kg
Distance from Bangor to Cardiff	270 mm	270 cm	270 m	270 km
Height of woman	170 cm	17 m	170 mm	1700 cm
Volume of a glass of water	27 litres	270 ml	2.7 cm <sup>3</sup>	2700 litres

[4]

3.

[3]



2. Write down the metric unit that is best used to measure

the distance from Berlin to Paris,

.....

the weight of a mobile phone,

.....

the height of a house,

.....

the capacity of a cup.

.....

[4]

2. Write down the metric unit that is best used to measure

the height of a door, .....

the weight of a pocket calculator, .....

the distance from Rome to Venice, .....

the volume of water in a bath. ....

[4]



2. Circle the quantity that is the appropriate estimate for each of the following.

Weight of a 16-year-old male	65 kg	650 mg	65 g	6.5 kg
Volume of a bucket of water	450 litres	45 ml	4.5 cm <sup>3</sup>	4.5 litres
Distance from Cardiff to London	240 cm	24 km	240 mm	240 km
Height of a woman	170 m	1700 cm	170 cm	170 mm

[4]



[4]

2. Write down the metric unit which is best used to measure

the length of a pencil, .....

the distance from London to New York, .....

the weight of a mouse, .....

the volume of a swimming pool. ....

3.

16. Sophie is going on holiday.

.....  
.....  
.....  
.....  
.....  
.....

(b) Sophie's luggage weighs 22lb.



Approximately how much does her luggage weigh in kg?

[1]

.....  
.....  
.....  
.....