Bishops Online Tutoring

Education Consultancy

Edexcel GCSE Mathematics

METRIC & IMPERIAL MEASURES

Materials Required:

- Pen
- HB Pencil
- Ruler (in centimetres and millimetres)
- Protractor
- Compass

Instructions:

- Use a black ink pen to answer all questions
- Fill your name in the section below
- Answer the questions in the spaces provided
- Show your working out for all answers

Information:

- The marks allocated for each question are displayed within brackets – utilise this information to gauge the appropriate amount of time to dedicate to each question
- Questions marked with an asterisk (*) will assess your written communication; be careful of spelling, punctuation and grammar with these questions

Advice:

- Carefully read the question before attempting to answer it
- Be vary of time and try to answer every question
- If you have enough time in the end, go back and check your answers. A good way to check your answers is to retry the question with the hope of getting the same answer as before without looking at your working out from before

NO CALCULATOR ALLOWED

NAME:	

1.
Complete this table.
Write a sensible unit for each measurement.

	Metric	Imperial
The height of a bus	Meters	feet
The distance between two towns	kilometres	Miles

(2 marks)

2.
Complete this table.
Write a sensible unit for each measurement.

	Metric	Imperial
The weight of a turkey	Kilograms	pounds
The volume of water in a swimming pool	Litres	gallons
The width of this page	centimetres	Inches

(3 marks)

3. Complete this table by writing a sensible unit for each measurement.

	Metric	Imperial
The height of a door	Meters	feet
The weight of a man	kilograms	Stones
The volume of water in a bucket	Litres	gallons

(3 marks)

4.

Write down a sensible **metric** unit that can be used to measure

(i) the height of a tree,

Meters

(ii) the weight of a person.

Kilograms

(2)

(b) Change 2 centimetres to millimetres.

20 millimetres **(1)**

(3 marks)

5.

(a) Write down the name of a sensible **metric** unit that can be used to measure

(i) the weight of a grape,

Grams

(ii) the diameter of a CD.

Centimeters

(2)

(b) Change 7 kilometres to metres.

7000 m

(1)

(3 marks)

6. (a) Write down the name of the **metric** unit used to measure

(i) the weight of a man,

Kilograms

(ii) the distance from New York to London.

Kilometers

(2)

(b) Change 4 metres to centimetres.

400 cm

(1)

(c) Change 9000 millilitres to litres.

9 ..... litres **(1)**

(4 marks)

7. (a) (i) Change 5.6 metres to centimetres.

560 ..... cm

(ii) Change 6700 millilitres to litres.

6.7 ..... litres

(2)

(b) Write down the name of the **metric** unit which is usually used to measure the weight of a person.

Kilograms **(1)**

(3 marks)

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8. (a) Write down a sensible **metric** unit that should be used to measure

(i) the height of a school hall,

Meters

(ii) the weight of a pencil.

Grams

(2)

(b) Write down a sensible **imperial** unit that should be used to measure the distance between London and Manchester.

Miles

(1)

(3 marks)

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9. (a) Write down a sensible **metric** unit for measuring

(i) the distance from London to Paris,

Kilometers

(ii) the amount of water in a swimming pool.

Litres

(2)

(b) (i) Change 5 centimetres to millimetres.

50 ..... mm

(ii) Change 4000 grams to kilograms.

4 ..... kg

(2)

(4 marks)

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10. (a) Complete the table by writing a sensible metric unit on each dotted line.
The first one has been done for you.

The distance from London to Birmingham	179 kilometres
The weight of a twenty pence coin	5 ..... grams .....
The height of the tallest living man	232 ..... centimeters
The volume of lemonade in a glass	250 ..... millilitres

(3)

(b) Change 5000 metres to kilometres.

..... 5 .....km

(1)
(4 marks)

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11. (a) Complete this table.
Write a sensible unit for each measurement.
Three have been done for you.

	Metric	Imperial
The length of your finger	Centimeters	inches
The distance between America and England	kilometres	..... Miles .....
The amount of petrol in a petrol tank	..... Litres	gallons

(3)

(b) Change 3 metres to centimetres.

..... 300 ..... cm

(1)

(c) Shalim says 1.5 km is less than 1400 m.
Is he right?
Explain your answer.

..... 1.5 km = 1500m, 1500m is .....
..... greater than 1400m therefore .....
Shalim is wrong

(1)
(5 marks)

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12. (a) Write down the name of a **metric** unit which is used to measure

(i) the distance from London to Brighton,

Kilometers

(ii) the weight of a bar of soap.

Grams

(2)

(b) (i) Change 240 millimetres to centimetres.

24 cm

(ii) Change 3.8 litres to millilitres.

3800 ml

(2)

(4 marks)

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13. (a) Complete this table.
Write a sensible unit for each measurement.
Three have been done for you.

	Metric	Imperial
Distance from London to Cradiff	km	Miles
Weight of a bag of potatoes	Kilograms	pounds
Volume of fuel in a car's fuel tank	Litres	gallons

(3)

(b) Here is a picture of a woman opening a door that is 2 m high.
Estimate the height of the woman.

1.6 m

(2)

(4 marks)

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14. (a) Complete the table by writing a sensible **metric** unit for each measurement.
The first one has been done for you.

The length of the river Nile	6700 .....kilometres.....
The height of the world's tallest tree	110 meters
The weight of a chicken's egg	70 grams
The amount of petrol in a full petrol tank of a car	40 litres

(3)

(b) Change 4 metres to centimetres. 400 cm

(1)

(c) Change 1500 grams to kilograms. 1.5 kg

(1)

(5 marks)

15. Write down a sensible **metric** unit for each measurement.

(i) The weight of a pair of sunglasses. grams

(ii) The height of a house. meters

(iii) The volume of toothpaste in a tube of toothpaste. millilitres

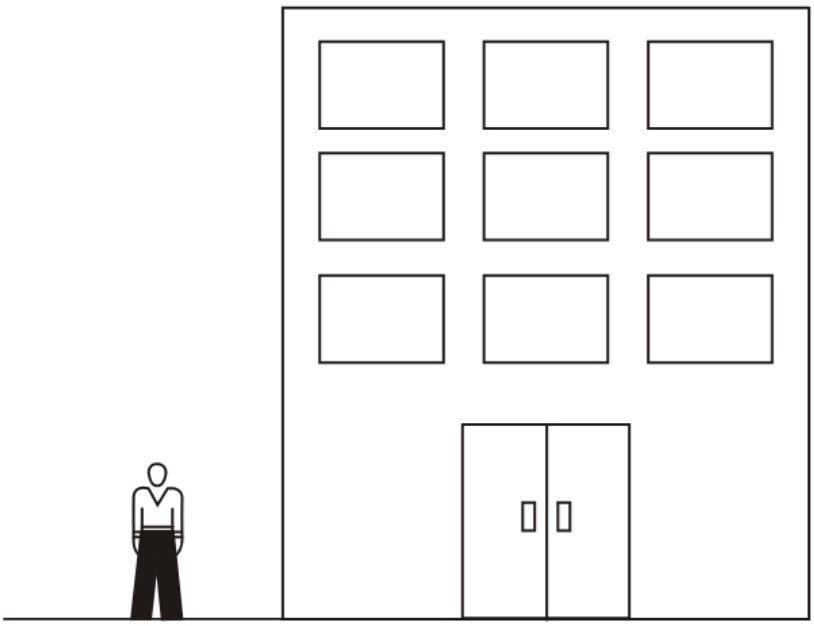
(3 marks)

16. Complete this table.
Write a sensible unit for each measurement.

	Metric	**Imperial**
The weight of a bicycle	Kilograms	pounds
The volume of water in a watering can	Litres	pints
The length of this page	centimetres	Inches

(3 marks)

19.



The diagram shows a building and a man.
The man is of normal height.
The man and the building are drawn to the same scale.

(a) Write down an estimate for the height of the man.

1.8m

(1)

(b) Write down an estimate for the height of the building.

6m

(2)

(3 marks)

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20. Complete this table.

Write a sensible unit for each measurement.

	Metric	Imperial
The weight of a chicken	kilograms	pounds
The volume of water in a petrol tanker	Litres	gallons
The length of a finger	centimetres	Inches

(3 marks)

21.

The picture shows a man standing next to a flagpole.
The man is of normal height.
The man and the flagpole are drawn to the same scale.

(a) Write down an estimate for the height, in metres, of the man.

2 ..... m

(1)

(b) Work out an estimate for the height, in metres, of the flagpole.

8 ..... m

(2)

(3 marks)

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22. (a) Write down a sensible metric unit for measuring

(i) the distance from London to Birmingham,

Kilometer .....

(ii) the weight of a pencil.

Grams .....

(2)

(b) (i) Change 7 centimetres to millimetres.

70 ..... mm

(ii) Change 4500 grams to kilograms.

4.5 ..... kg

(2)

(4 marks)

23.

The diagram shows a man and a bus.
The man and the bus are drawn to the same scale.
The man is of average height.

(i) Write down an estimate for the height of the man.

1.8m

(ii) Find an estimate for the length of the bus.

8m

(4 marks)

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24. (a) Write a sensible unit for each measurement.

	Metric	Imperial
The weight of a man	Kilograms	pounds
The volume of water in a bath	Litres	gallons
The length of an arm	centimetres	Inches

(3)

(b) Change 6.8 metres to centimetres. 680 cm

(1)

(c) Change 7500 grams to kilograms. 7.5 kg

(1)

(5 marks)

DISTANCE

Metric	Imperial
Kilometre (km)	Miles
Metres (m)	Yards
Centimetres (cm)	Feet
Millimetres (mm)	Inches

1 km = 1000m
1m = 100cm
1cm = 10mm

WEIGHT

Metric	Imperial
Kilograms (kg)	Tonnes
Grams (g)	Stone
Milligrams (mg)	Pounds
	Ounces

1kg = 1000g
1g = 1000mg

CAPACITY / VOLUME

Metric	Imperial
Litres (l)	Gallons
Millilitres (ml)	Pints

1l = 1000ml