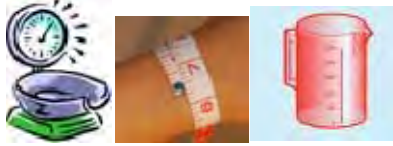


## **BASIC SKILLS IN NUMERACY**



### **Common Measurements Portfolio Level 1 and Level 2**

**NAME .....**



## LENGTH, WEIGHT, CAPACITY

1. Use the internet and find out the names of the main bones in your body.

Draw a rough diagram of a skeleton and label the bones.

(Make sure you label a minimum of 7 bones).

*Draw your skeleton here*

Find out the length of these 7 bones in your body (in metric units) and create a table with the information you have found.

Which is the smallest bone in your table? Which is the longest one?

Find out how much longer your thigh bone is than your entire middle finger.



## LENGTH, WEIGHT, CAPACITY

2. A group of friends are planning their summer holiday.

They are planning to visit Edinburgh but they want to stop in Lincoln for 3 hours.

What is the total distance in km from Oxford to Edinburgh?

If they start their journey at 6am in the morning, when will they arrive in Edinburgh?

What is the total distance in miles from Oxford to Edinburgh?

If, for every 100 miles they estimate to spend £25 in petrol, how much would it cost in petrol for their return journey? (Use [www.theaa.co.uk](http://www.theaa.co.uk) website)



## COMMON MEASUREMENTS –MONEY

1. Think of two things you'd really like to buy and find out how much they cost.

A) As it is January, can you find the items on SALE?

What was the original cost and by how much have they been reduced?

(In percentages and in figures).

B) Research two or more shops on the internet and find out if there is a difference in price. Produce a table of contents, with one column showing the difference in price.

C) Work out how much you think you could save each week and how long it would take you to save up for the two items.



## COMMON MEASUREMENTS –MONEY

### EXTENSION ACTIVITY

Plan a trip to another country e.g. Pakistan, The Caribbean, Eastern Europe.

Find out about the currency and the exchange rate.

Find out about the hotel costs.

Think about what you need to spend your money on (e.g. flights, accommodation, food, car, excursions).

Produce a table showing the budget you need to travel for a chosen length of time. (Make sure you have two columns with the prices in pounds and in the country's currency).

Compare the cost of some items in your destination country with the ones in the UK. E.g. suntan lotion, bottled water, etc.



## TIME

1. Time across the world is based on Greenwich Mean Time (GMT).

Use the internet to find out about GMT and write a short paragraph summarising your findings.

.....

.....

.....

.....

.....

2. When it is midday here, find out what time is in the following places:

Time	Place
	Athens in Greece
	Delhi in India
	Paris in France
	Hong Kong in China
	Sidney in Australia

3. Using a computer, find a website for train times (try [www.nationalrail.co.uk](http://www.nationalrail.co.uk) ).

Plan a journey from your home to an event (sporting event, concert, show) that would involve a train journey. Use the website timetable to look up the train times.

Answer the following questions:

- a. When does the event start?
  
  
  
  
  
  
  
  
  
  
- b. How long will it take you to get there?
  
  
  
  
  
  
  
  
  
  
- c. Which is the best train to catch?
  
  
  
  
  
  
  
  
  
  
- d. How much does the return train ticket cost?

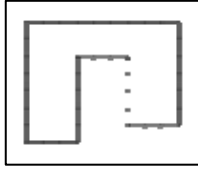


## TIME

### EXTENSION ACTIVITY

Darren has to go with Tom to deliver a load to Calais in France. Tom will be driving a vehicle weighing over 3.5 tonnes. Darren must decide on a route from Wolverhampton to Calais. Assume the vehicle travels 50 miles every hour and consider the EU rules for rest during long drives.

Suggest a route, driving and rest times for Darren and Tom.



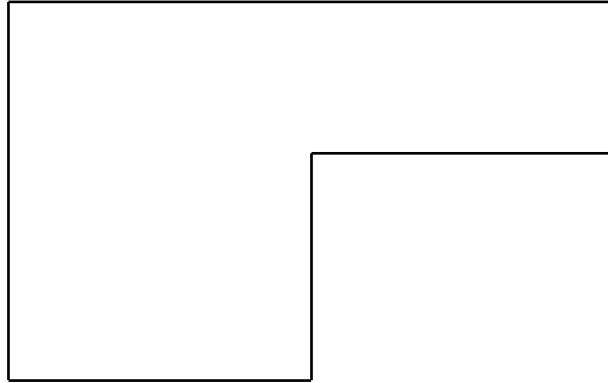
## AREA AND PERIMETER

1. A garden is L shaped.

**a**

How long is side **a** ?  
(to the nearest cm)

How long is side **b** ?  
(to the nearest cm)



**b**

George wants to put a new fence around the garden.

**If the scale is 1: 100**

Work out the perimeter and area of the garden. **(for Level 2 use a scale of 1: 250)**

Using the internet (websites like Homebase) find two types of fence and compare the prices you will pay to put a new fence in the garden.

Choose one option and give your reason.

.....  
.....

Print out a picture with your fence and stick it on the back of this page.







## SHAPES

Choose any 2 D or 3D shape (e.g. circle, cube).

Using the internet, find out about its properties and characteristics. Write a brief paragraph about your findings.

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

List a minimum of 2 places in nature where you can find this shape?

### EXTENSION ACTIVITY

Find the formulae for area, perimeter and volume ( if applicable ) for your chosen shape.

# PORTFOLIO student's choice

## STUDENT'S CHOICE

TOPIC .....

