

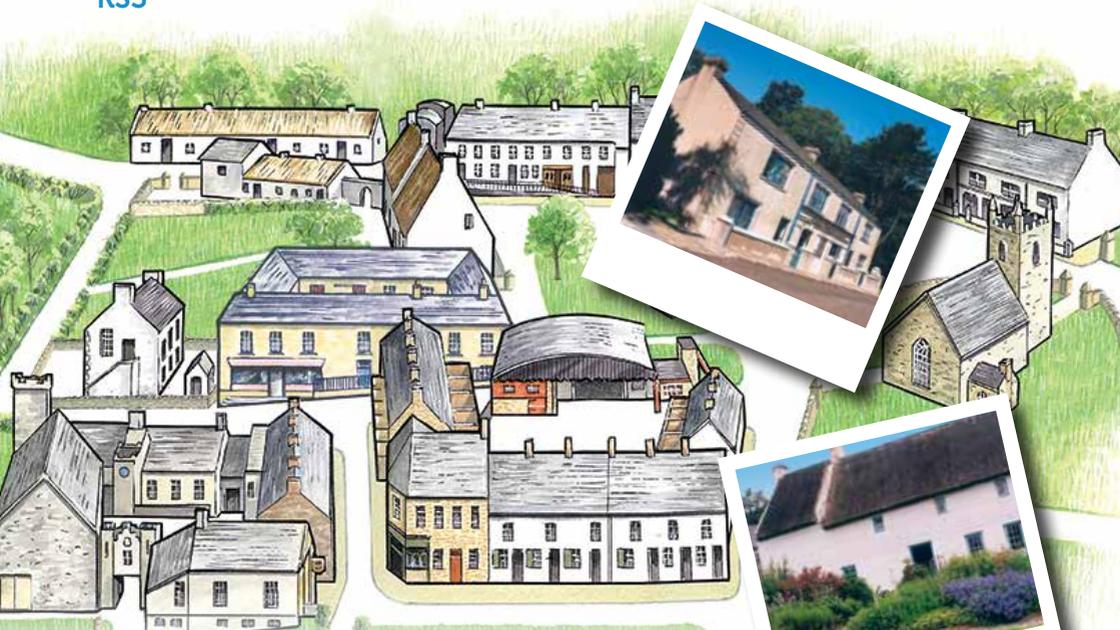
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Figures in the Folk Museum

An interactive learning experience at the Ulster Folk & Transport Museum. Meet some of the characters who live in Ballycultra town, listen to their story and use their knowledge to complete a fun maths trail.

KS3



$$\begin{array}{r} 365 \\ + 250 \\ \hline 615 \end{array}$$



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The year is 1912 and you are visiting Ballycultra town at the Ulster Folk and Transport Museum.

Your teacher/leader will lead you around the town area where you will meet some interesting characters; a bank manager, a post master and Mrs McCullough, the minister's wife. You can work with a partner to complete the answers in this booklet.

The map opposite shows the 3 venues you will need to visit - the **Bank**, the **Rectory** and the **Post Office**. Your leader will inform you of the order of the buildings you must follow.

Equipment you will need:

- **A pencil**
- **A ruler** (Please note that the width of one of these pages is approximately 15cms. This fact may be useful in estimation activities)
- **A clipboard**

Spend approximately 30 minutes at each location. Listen carefully to each of the characters you meet as they have useful information to help you complete the questions in this booklet.

On your return to school, download the follow up pack called "Figures in the Folk Museum, post visit pack" from the museum's website www.nmni.com/uftm/learning. You will need to use the information you have gathered in this booklet to help you answer some of these questions so ensure you take it back to school.





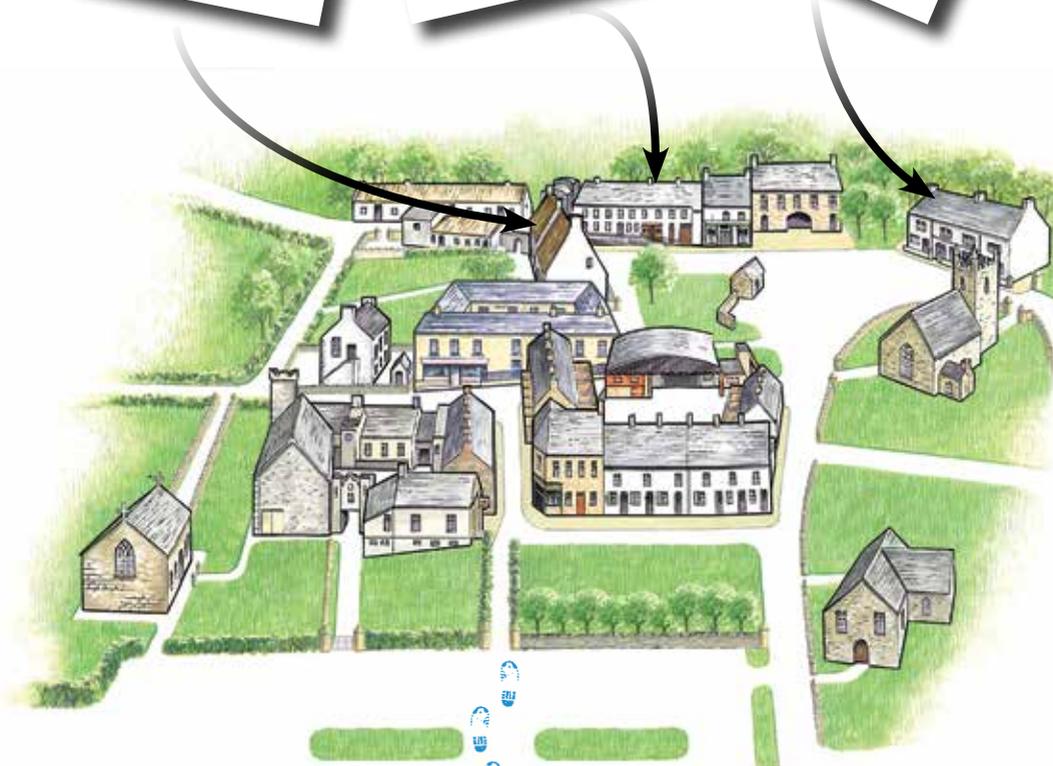
The Rectory



The Post Office



The Bank



At the Bank

You will meet the Bank Manager, Mr. James who will tell you something about his life and work as well as his family.

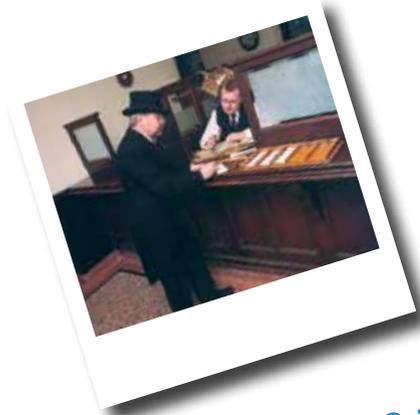
Listen carefully to the information - it may help you with some of the answers.

Mr. James had several male staff working in the Bank with him. As the Manager, he lived in the Bank House rent free and was paid a salary of £350 annually.



1. Mr. Barry, the Cashier, was paid _____ per month. The Ledger Clerk earned £4/10/- (£4 and 10 shillings) per week.
2. A Junior was paid _____ weekly.
3. How much did the Cashier earn annually?

4. What was the Ledger Clerk's annual salary?



Note
There are 20 shillings in £1
10 shillings is half of £1

Annually means yearly

The customers of the Branch were mainly professional men such as the local solicitor, the school teacher, the minister, the shop owners and the wealthier farmers of the area.

Mr. Patterson of Drumnahunshin is a farmer with an account here. He has a Mortgage (Loan) of £150 on his farm.

5. The Bank charges _____ interest each year on his mortgage.

6. How much does Mr. Patterson repay in interest every year?

Mr. Patterson has a brother, Jack, who emigrated to Canada. Jack has sent \$50 Canadian to his family at home. Change this into pounds (£). Use the exchange rates given by the Bank Manager to calculate these changes.

7. Jack's money is worth

£ _____



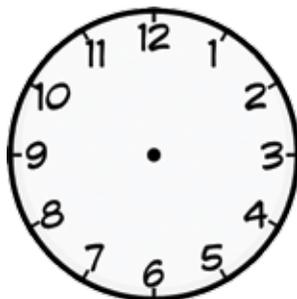
Mr. Patterson's oldest son, Felix, is immigrating to America. His father wants to give him £30 to start up as a carpenter. How many U.S. dollars will Mr Patterson get when he changes this money?

Use the exchange rate given by the bank manager to calculate these changes.

8. Felix receives \$ _____

9. What time is on the wall clock behind the counter?

10. The time shown is during the bank's working day. Write this time using the 24 hour clock.

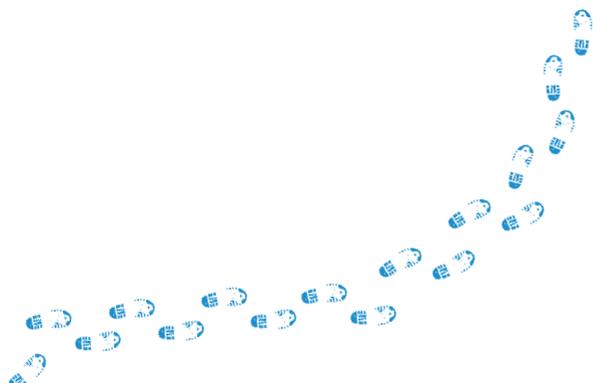


Notice the date on the calendar in the Bank.

Write the date here

There will be a Bank Holiday on the first Monday of next month.

11. On what date will the Bank Holiday fall?



At The Post Office

Look at the Parcels Post Notice in the front window of the Post Office. Some of the information from this notice is shown in the table below.

Fill in the missing costs for weights 'Over 5lb'.

Weight in Pounds (lb)	Cost
Not exceeding 1lb	3d
Between 1lb and not exceeding 3lb	6d
Between 3lb and not exceeding 5lb	9d
Over 5lb	

Note
12 old pence (12d)
equals
One shilling (1/-)



On the counter, there are a number of parcels ready for posting. The post master will weigh each parcel on the Post Office scales and you should complete the table below to show how much it costs to post each item.

	Address of Parcel	Weight in Pounds (lbs)	Cost
2.	Ballycastle		
3.	Omagh		
4.	Portadown		

The cost of posting letters depended on the weight of the letter and its final destination. To find the cost of posting a letter to America the rule shown below is used:

Weight of letter in ounces	x 2	+ 3	$\frac{\text{equals}}{\text{---}}$	Cost of posting in Pence (d)
-------------------------------	-----	-----	------------------------------------	--

Work out the cost of posting the letters to America. Mr Rea the Post Master will tell you how much each letter weighs in ounces (ozs.)

1. The stamp for the letter to Paul McGrath costs

Weight of letter in ounces	x 2	+ 3	$\frac{\text{equals}}{\text{---}}$ (d)
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2. The stamp for the letter to Mr. John Coyle costs

Weight of letter in ounces	x 2	+ 3	$\frac{\text{equals}}{\text{---}}$ (d)
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Frank McGrath lives in Australia and the cost of posting a letter is calculated as shown below:

Weight of letter in ounces	x 3	+ 1	$\frac{\text{equals}}{\text{---}}$	Cost of posting in Pence (d)
-------------------------------	-----	-----	------------------------------------	--

Listen to the weight in ozs. Write it here _____

3. Work out the cost of posting the letter to Frank McGrath?

Weight of letter in ounces	x 3	+ 1	equals (d)
			—	

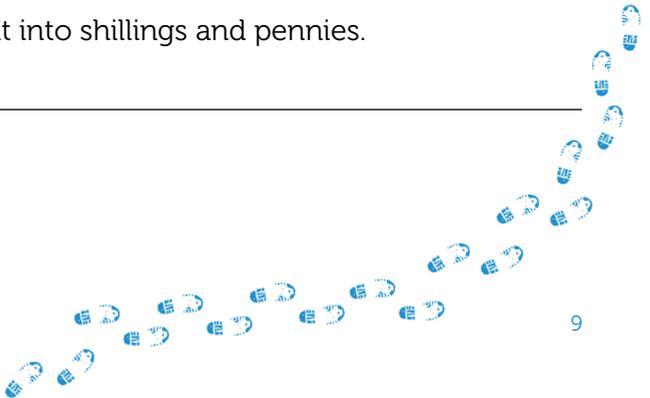
4. It cost 15d to post a letter to America. What did this letter weigh?

5. Mr Rea will read you a telegram message. If the cost is 2d per letter in a word work out much it would cost to send this message.

Write the message here

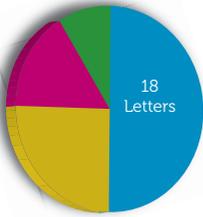
a. To send this message it would cost _____

b. Convert this amount into shillings and pennies.



This Pie Chart shows the number of letters delivered to some of the streets in Ballycultra on one day last week.

Number of Letters



- Tea Lane
- Mill Street
- Chapel Lane
- Meeting Street

6. What fraction of the letters was delivered to houses in Tea Lane?

7. How many letters were delivered to these streets altogether?

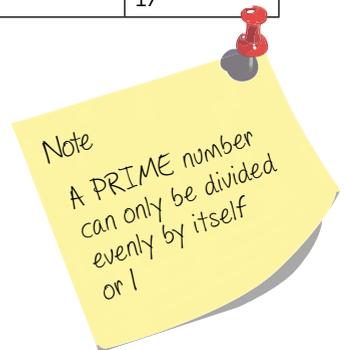
8. How many letters were delivered to houses in Mill Street?

9. What Percentage of the total number of letters was delivered to addresses in Mill Street?

During one week the postman delivered the following number of items to addresses in Tea Lane, the post master will tell you the missing numbers.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
23		22	25		17

10. On which days were the number of items PRIME numbers?



In The Rectory Kitchen

Stand at the front door of the Rectory, with your back to the building, looking straight down the garden. This is your Start Position (SP).



What garden features do you see if you:

1. Look straight ahead

Return to SP

2. Turn 90° clockwise

Return to SP; take 4 steps forward

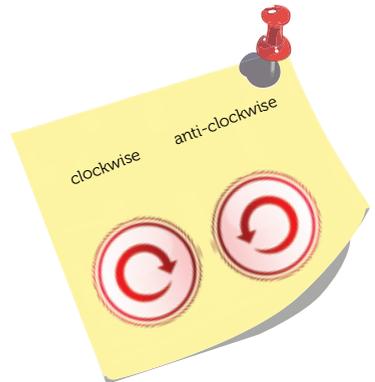
3. Turn 45° anticlockwise (remember this must be a garden feature)

Return to SP

4. From SP through what angle and direction do you need to turn to see the fencing?

5. Return to SP:

Right 180°
Forward 6 steps
Left 90°
Forward 2 steps
Left 90°



What do you see directly in front of you?

Unscramble the letters below to find the correct name for this item.
The first word has been sorted out for you.

BOEAJCNA

AKO

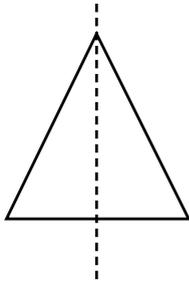
CNKTIHE

PBOCRAUD

JACOBEAN

- 6.** Look carefully at the front of this piece of furniture. In the spaces below draw and name 4 2-dimensional shapes. Draw the lines of symmetry on each of your shapes. Please do not lean on this piece of furniture.

E.g.



Shape 1.

Shape 2.

Name _____

Name _____

Shape 3.

Shape 4.

Name _____

Name _____

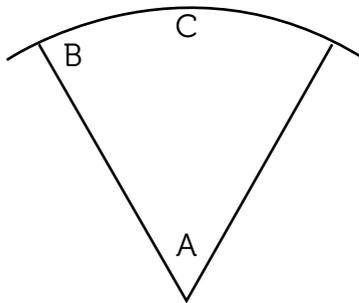
There is a date at the top front of the dresser which is difficult to read today. Miss McCullough will give you this information.

7. If this date shows the year in which the dresser was made, how old is the dresser now? Show your work on the page.

Miss McCullough will tell you about living in the house. Listen closely, as you may be told important information for some of your questions.



You will see this artefact located at the edge of the kitchen table. It is an orange slicer used in the production of marmalade



Line drawing of orange slicer

The back of the orange slicer is shaped a sector of a circle as shown in the diagram above.

8. From the list below, circle the name given to angle A

Acute Angle

Right Angle

Obtuse Angle

Reflex Angle

9. Circle the size of angle in the list below which you estimate to be closest in size to angle A

20°

60°

100°

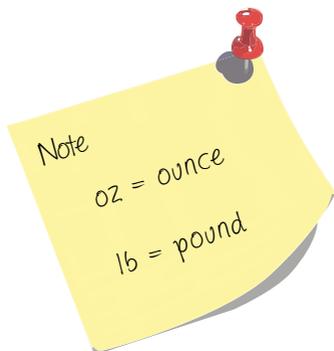
170°

215°

310°

Further questions on parts B and C can be found in the downloadable post visit pack on the Museums' website.

- 10.** Scones are made in the kitchen and served at the evening meal. The recipe used to make 10 scones is shown below. Some of the ingredients are missing below on the left, listen to Miss McCullough to find the answers.



..... ozs flour
 ozs butter
 1 oz caster sugar
 ½ level teaspoon salt
 ¼ pint milk
 1 teaspoon baking powder

..... ozs = lb ozs flour
 ozs butter
 oz caster sugar
 level teaspoon salt
 pint milk
 teaspoon baking powder

- 11.** How much of each ingredient is used to make 30 scones?
 Write your answer in the right hand spaces above.



- 12.** Measure each side of one of the floor tiles to the nearest centimetre and complete the sentences below.

(Remember the width of one of these pages is approximately 15cm).

The floor tiles are _____ in shape.

Each side is _____ cm long.

The area of each tile is _____ cm^2

- 13.** Look at the table used for baking which is beside the back window of the kitchen. Using the area of a Floor Tile, which you have just found, can you estimate the area of the rectangular Table Top (the flat surface)
Show your work.

My estimate for the area of the table top is _____ cm^2

Remember you need to take this booklet back to school. There will be follow up questions back in school and you will need this information to be able to complete the worksheets.

Download – Figures in the Folk Museum, post visit pack at

www.nmni.com/uftm/learning

