

Maths

Based on Ireland and the Sea: The Famine (Cross-curricula link with History: The Great Famine)

Strands: Number/ Data/Measures

Strand units: Operations/Decimals and Percentages/ Fractions/ Representing and interpreting data/ Time

Aims:

- Calculate how many years between the Great Famine of Europe, the Forgotten Famine in Ireland and the Great Irish Famine
- Use the website to research information on the numbers who emigrated from Ireland during the Great Famine
- Represent the data on emigration using a trend graph
- Represent and compare the amount of emigration to U.S.A., Canada and Australia using percentages, fractions and decimals
- Illustrate the percentage of emigrants who went to U.S.A., Canada and Australia using a pie chart.
- Explore international time zones focussing on the destinations of the Irish emigrants – calculate time differences between Ireland and other countries
- Interpret and convert between times in 12 hour and 24 hour format e.g. 8.00am = 08:00 hrs
7.30pm = 19:30 hrs

Suggested ideas:

- Read the 'Did you know?' section on the Follow the Fleet website

<http://www.imdo.ie/followthefleet/irelandFamine.asp>

Find out when did the Great Famine of Europe take place? _____

When was the 'Forgotten Famine' in Ireland? _____

When was the 'Great Irish Famine'? _____

- How many years between the Great Famine of Europe and the Great Irish Famine?
- How many years between the Great Irish Famine and the 'Forgotten Famine'?
- How many years between the Great Famine of Europe and the 'Forgotten Famine'?

- Read about the Great Irish Famine on the Follow the Fleet website.
<http://www.imdo.ie/followthefleet/irelandFamine.asp>

Answer the following questions:

- How many people emigrated in 1845? _____
- How many people emigrated in 1846? _____
- How many people emigrated in 1847? _____
- How many people emigrated in 1855? _____

***Remember 1000 can be represented by the letter 'k' e.g. 250,000 can be written as 250 k

Now, write the answers using 'k'

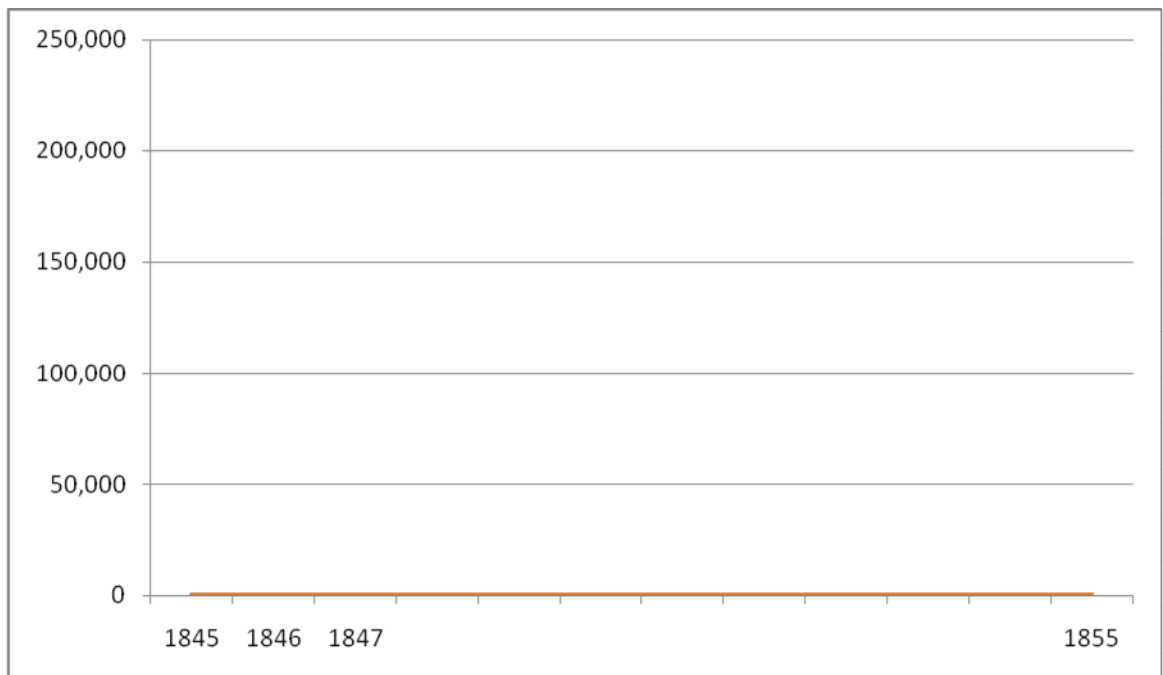
How many people emigrated in 1845? _____ k

How many people emigrated in 1846? _____ k

How many people emigrated in 1847? _____ k

How many people emigrated in 1855? _____ k

- Using a trend graph, represent the levels of emigration from 1847-1855



➤ Read the emigration figures from the website

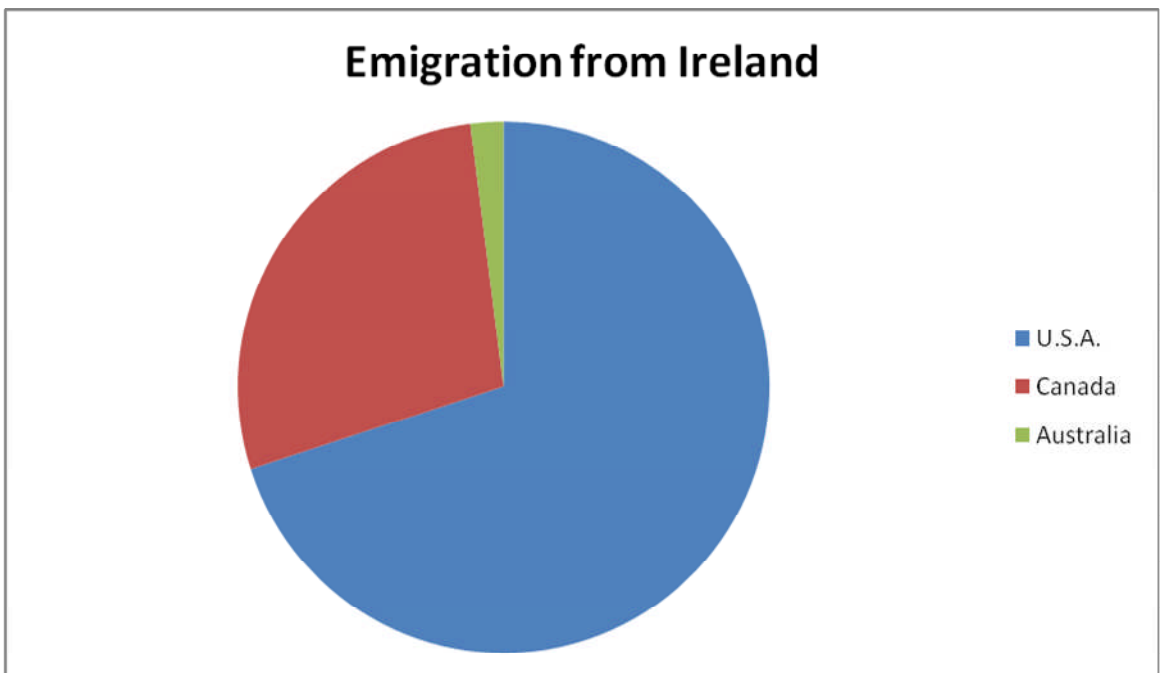
<http://www.imdo.ie/followthefleet/irelandFamine.asp>

- What percentage of people emigrated to U.S.A.? _____
- Write this as a decimal. _____
- How would this look as a fraction in its simplest form? _____

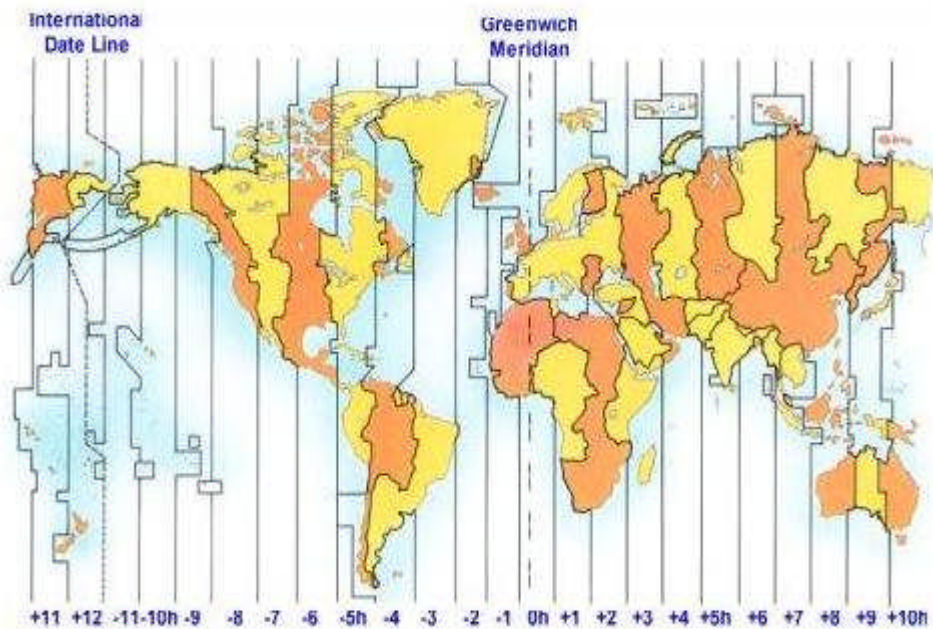
- What percentage of people emigrated to Canada? _____
- Write this as a decimal. _____
- How would this look as a fraction in its simplest form? _____

- What percentage of people emigrated to Australia? _____
- Write this as a decimal. _____
- How would this look as a fraction in its simplest form? _____

➤ Use a pie chart to illustrate the percentage of people who emigrated to U.S.A., Canada and Australia



- Read the Follow the Fleet website <http://www.imdo.ie/followthefleet/irelandFamine.asp> and /or look at your pie chat.
 - Where did people emigrate to?
 - Use your atlas to find Canada, U.S.A. and Australia
 - Locate Vancouver in Canada, New York in U.S.A. and Sydney in Australia
 - Use the map and your atlas to see how many hours ahead or behind Ireland are Vancouver in Canada, New York in U.S.A. and Sydney in Australia
 - How many hours ahead/behind is Vancouver in Canada? _____
 - How many hours ahead/behind is New York in U.S.A.? _____
 - How many hours ahead/behind is Sydney in Australia? _____



© <http://www.happyzebra.com/images/time-zones-map.jpg>

- In the table below calculate what time it will be in Vancouver, New York and Sydney when it is breakfast time, lunch time and tea time in Ireland.
- Write it in the 12 hour clock (a.m./p.m.) and the 24 hour clock

Meal	Ireland	Vancouver, Canada	New York, U.S.A.	Sydney, Australia
Breakfast	8.00am/ 0800 hrs			
Lunchtime	1.00pm/ 13:00 hrs			
Tea time	6.00pm/ 18:00 hrs			