

What is a Mathematician?

A mathematician
uses mathematics
to answer
questions.

So we are all mathematicians- yah!

Lots of people use mathematics in their jobs everyday.

- Computer programmer
- Doctor
- Shop assistants
- Teachers
- Game designer
- Astronauts
- Architects

In fact it is difficult to think of a job where you don't use mathematics!

Famous Mathematicians take a step beyond this.
They are people whose discoveries and experiments changed the world and the way we see it.

Florence Nightingale (1820 – 1910)

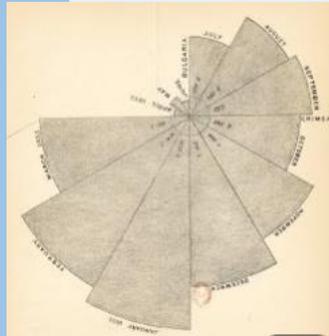
February KS2



Achievements- Nightingale became the first female member of the Royal Statistical Society in 1859.

Question- can I use statistics to improve medical care in the Crimean war?

Nightingale devised an early version of a pie chart, called a “polar area diagram”, and used this as a means of communicating complex statistical information in a visual way that aided Understanding.



Background- From the age of thirty-five to the age of sixty-five, Nightingale reported debilitating symptoms such as chronic chest pains, headaches, muscle fatigue, upper back pain and being unable to concentrate when in the company of more than one person.

Florence Nightingale (1820 – 1910)

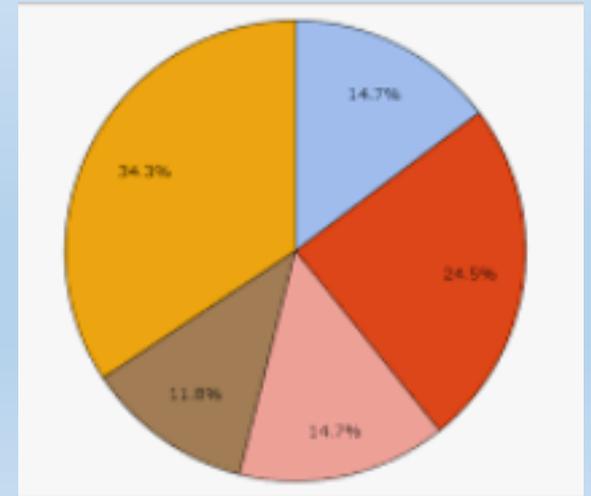
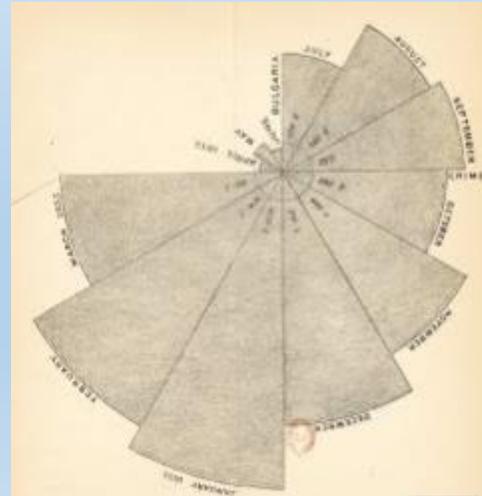
February KS1



Achievements- Nightingale became the first female member of the Royal Statistical Society in 1859.

Question- can I use mathematics to give people information? This is called statistics.

Nightingale devised an early version of a pie chart, called a “polar area diagram.”



Kate Adebola Okikiolu (1965 –)



Question- can you hear the shape of a drum?

Her field of study is called spectral geometry.

Achievements-she won a Sloan Research Fellowship – becoming the first Black recipient of this fellowship. In the same year, she was awarded a Presidential Early Career Award for Scientists and Engineers for both her mathematical research and her development of mathematics curricula for inner-city school children. This award is given to only 60 scientists and engineers each year and has a prize of \$500 000.-

Background-At high school, Kate Okikiolu developed an interest in art and maths. She was also an outstanding athlete.

Despite being part of a family of mathematicians, she learnt maths on her own from textbooks. She also spent a lot of time studying art and wanted to pursue a career as an artist. However, she was convinced by her family to work for a maths degree first, to ensure she could always earn a living.

Kate Adebola Okikiolu (1965 –)



Interests
Athletics
Art

Question- can you hear the shape of a drum?

Her field of study is called geometry.

