

Maths Weekly Wonders

A fun, weekly challenge linked to events happening in the world around us to keep mathematical minds active!

Choose from **Key Stage 1**, **Lower Key Stage 2** or **Upper Key Stage 2**.

Saturday 21st August, 2021:

Anniversary of when Big Ben stopped chiming.

Big Ben is the name of the bell that sits inside the Elizabeth Tower of the Houses of Parliament.

- 1) The last time the bell chimed was midday.
How many chimes were heard? **12 times**
- 2) The bell usually strikes every quarter of an hour.
How many minutes is this? **15 times**
- 3) On Friday 21st August, 2017, Big Ben chimed for the last time before 5 years of renovation works.
In which year will the work be completed? **2022**



A chime is the noise a bell makes when it rings.

Every o'clock time, the bell rings the same number of times.

For example, at 2 o'clock, the bell rings 2 times.

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Thursday 19th August, 2021: International Orangutan Day



- 1) Orangutans are usually between 1.2m to 1.5m tall but have a longer arm span of up to 200cm. How much longer is the arm span, compared to the height? 50cm to 80cm
(or 0.5m to 0.8m)
- 2) An adult male orangutan may be three times as heavy as adult female. If an adult male weighs around 90kg, how much would an adult female weigh? 30kg
- 3) Orangutans can spend up to 20 hours a day in trees. What fraction of one day is this? $\frac{20}{24}$ or $\frac{5}{6}$
- 4) Carl is planning a day trip to a rescue centre with his three children, Hannah (5 years old), Lucy (7 years old) and Alison (9 years old). What is the cheapest ticket cost for them all? $£27.00 + £9.00 = £36.00$



Ticket Type	Ticket Tariff
Adult	£12.00 per ticket
1 adult 2 children	£27.00 per ticket
2 adults 2 children	£38.00 per ticket
Age 3-15	£9.00 per ticket



Friday 20th August, 2021: World Mosquito Day

- 1) World Mosquito Day was first established in 1897, when the link between mosquitoes and malaria transmission was discovered by Sir Ronald Ross. How many years ago was this? **123 years**
- 2) The lifespan of a male mosquito is 7 days. A female mosquito lives for between 2 weeks to one month. For approximately what fraction of the female's lifespan does the male live for? **$\frac{1}{4}$ to $\frac{1}{2}$**
- 3) Malaria can be found in over 100 countries but roughly 70% cases are concentrated in 11 tropical countries. What fact could you give from this about the remaining cases?
e.g. 30% of malaria cases are found in over 89 (or over 90) countries
- 4) Mosquitoes can beat their wings between 450 and 600 times per second. How many times is this every minute? **27,000 to 36,000 times**
- 5) There is believed to be approximately 219 million cases of malaria every year across the world. How many is this every month? **18,250,000 cases**

