

# Numeracy Homework – Year 5 – Friday 5<sup>th</sup> June

You are working for the World Meteorological Organization, tracking extreme weather events across the globe—from Saharan heatwaves to Arctic blizzards.

## **Task 1: The Saharan Heatwave (Decimals & Operations)**

A massive heatwave causes temperatures to skyrocket across North Africa and Southern Europe.

1. In Morocco, the temperature hits 46.8 Degrees C. In Spain, it reaches 39.9 Degrees C. What is the difference between the two temperatures?
2. Over five days in the desert, the temperature rose by exactly 1.25 Degrees C each day. If it started at 41 Degrees C, what was the temperature on the 5th day?
3. **The Multi-Step Challenge:** A scientist's thermometer breaks when it hits 50 Degrees C. Before it broke, the temperature was rising by 2.5 Degrees C every hour. If the temperature was 42.5 Degrees C at 10:00 AM, at what exact time did the thermometer break?

## **Task 2: The Arctic Blizzard (Fractions & Decimals)**

A severe blizzard traps a research team in Greenland. They have a fuel tank that holds **120 litres** of fuel to keep their heaters running.

1. During the first night of the blizzard, they use  $\frac{3}{8}$  of their fuel. How many litres did they use?
2. Convert  $\frac{3}{8}$  into a **decimal**.
3. The next day, they used another 0.2 of the *original* 120-litre tank. How many litres do they have left to survive the rest of the storm?

## **Task 3: Storm Tracking (Geometry & Symmetry)**

Meteorologists use satellite imagery to track the rotation of massive hurricanes.

1. Look at the satellite image of a perfectly circular hurricane. How many lines of symmetry does a perfect circle have?
2. A hurricane spinning in the Northern Hemisphere rotates counter-clockwise. If a storm cloud rotates three-quarters ( $\frac{3}{4}$ ) of a full turn, how many **degrees** has it rotated?
3. **Advanced Shape Hunt:** The eye of a storm is surrounded by clouds that form a perfect regular hexagon.
  - What is the total sum of the internal angles of a hexagon? (*Hint: Think about how many triangles you can fit inside it*).
  - Are the angles acute, obtuse, or reflex?