

Petrol Panic in the UK!



In September 2021, many Petrol Stations across the UK started to run out of petrol. This was partly because of a news story about a shortage of drivers to deliver the petrol across the country. But the main problem was the **panic** from many people who filled up their cars full of petrol, or even filled up extra canisters in case they ran out!

Q1.

Some people started queuing at 5am for petrol and had to wait 160 minutes

What time did they finally get petrol?

Q2.

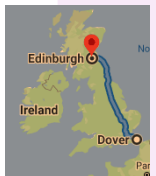
There are not as many HGV drivers as there used to be, some have retired and some have moved to other countries.

There are about 236,000 **HGV** Lorry Drivers in the UK. but they need another 100,000. How many do they need?

Q3.

HGV Drivers have to drive for a long time. It is a tough job with not a huge salary and why not many people are choosing it as a job.

If you drive 60mph (miles per hour) for 8 hours how many miles would that be?



Q4.

It is roughly £1.50 for one litre of fuel. An average car can hold 45 litres.

How much does it cost to fill an average car with petrol?

Q6.

(That's as far as Dover to Edinburgh)

Samir fills up his tank, and after 5 days, his meter shows this:



If he uses the same amount of fuel each day - how long will it be before he is nearly empty? Explain your answer!

Did you know?

There was more than enough fuel for every person in the UK. But because everyone tried to fill up their cars at the **SAME TIME**, fuel companies could not keep up with **demand**. The same thing happened with toilet rolls last year!

Q5.

It is very rare for petrol stations to run out of petrol. At a petrol station with four pumps, it can hold 40,000 litres of petrol.

If each car uses 50l to fill up, how many cars need to visit before they run out?

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Q1.

Petrol Stations rarely run out of petrol. A small sized station with four pumps can hold 40,000 litres of petrol when full.

A car holds around 45l. How many cars need to fill their tanks for the station to be empty?

Q2.

HGV Drivers are in demand as many have retired or moved to other countries and there are not enough new drivers.

Driving long hours can be extremely hard. Driving at an average speed of 60mph. How long does it take to drive from London to Newcastle and back?
(it is 280 miles one way)

Q4.

Electric Vs Petrol (all values are UK average)

Electric costs 17p per **kWh**
Electric cars need about 60kWh to be full
This is good for about 250miles

Petrol costs 140p per litre
45 litres to fill a car
This gives you 500 miles of travel
Which is better value for money and why?

Q3

On average, five years ago petrol was **111.74p** for a litre
Now petrol costs **136.43p** for a litre

How much more does petrol cost per litre?

Q5.

It was reported 2/3 of petrol stations ran out of petrol. There are 8,300 stations in the UK. How many ran out?

Q6.

This week some non league football matches were cancelled because the teams couldn't travel without petrol!

If every car owner had filled to half - twice as many cars could have got petrol much quicker.

The average travel (commute) to work in the UK is 23 miles (there and back)

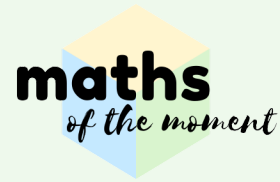
If half a tank can cover 250 miles, how many days should that last? Did everyone need to fill up to the top?

Did you know?

There was more than enough fuel for every person in the UK. But because everyone tried to fill up their cars at the SAME TIME, fuel companies could not keep up with **demand**. The same thing happened with toilet rolls last year!

Petrol Panic

ANSWERS



KS2

1. **7:40AM**
2. **336,000**
3. **480**
4. **67.50**
5. **800**
6. **BETWEEN 15 AND 18 DAYS BEFORE NEEDING TO REFUEL**

KS3

1. **889**
2. **9H20MINUTES (WATCH OUT FOR 9.3333..)**
3. **24.69P (FOLLOW UP BY ASKING WHAT IT MIGHT BE WHEN THEY CAN DRIVE)**
4. **ABOUT 10.20 FOR 250 MILES COMPARED TO 63 POUND FOR 500 MILES, ELEXTRIC MUCH BETTER VALUE (THOUGH DO CHAT ABOUT THE TIME TAKEN TO CHARGE NOT BEING AS FAST)**
5. **5,533!**
6. **10 AND A HALF DAYS - NO NEED TO PANIC!**

THE INVESTIGATION:

THERE ARE LOTS OF VALUES HERE BUT THE REALISATION SHOULD BE THAT A LOT OF FUEL WAS NEEDED BECAUSE EVERYONE BOUGHT IT AT ONCE. AND THAT TO SUPPORT ALL PETROL STATIONS WE NEED MORE HGV DRIVERS!