



# Maths on The LONDON UNDERGROUND



For this task, you will need a copy of the famous London Underground map

Look at the key and especially look at the colours denoting the different lines.

Using the map, answer these questions – they get harder as you go along!

1. On the Central line, how many stations between **Oxford Circus** and **Notting Hill Gate**?
2. On the Piccadilly line, if you get on at **Green Park** and want to go to **Bounds Green**, do you want the northbound or southbound train?
3. Which line is **Heathrow Airport** on?
4. Find a route from **Paddington** to **Highbury and Islington** where you need to change only once.
5. Which station is at the north east end of the District line?
6. How many stations are there with '**Ruislip**' in the name?
7. Is **Kew Gardens** to the north or the south of the river?
8. Find two stations beginning with B that link to the national rail network.
9. You are travelling with your friend who is in a wheelchair from **Fulham Broadway** and you want to visit **Bond Street**. How close will you be able to get and what is the route?
10. How many lines is **Hammersmith** on?

11. You are travelling from Nottingham to visit the Natural History Museum (nearest tube station **South Kensington**). The train from Nottingham terminates at **King's Cross St. Pancras**. Find the most direct route to the museum.

12. You are travelling from Norwich to go to the **Wimbledon** tennis championships. The train from Norwich stops at **Liverpool Street**. Find two possible routes and compare them to see which is the most direct (i.e. fewest station stops and fewest changes).

13. You are travelling from Liverpool to visit the **Cutty Sark** and **St.Paul's Cathedral**. The train from Liverpool terminates at **Euston**. Plan a route for the round trip without going into Zone 3.

This table shows you about the different fares to use the London Underground

Zones	Cash single fare	One day travelcard Peak time (before 9.30am)	One day travelcard Off-peak time (after 9.30am)
1-2	£4.00	£7.20	£5.60
1-3	£4.00	£8.60	£6.30
1-4	£4.00	£10.00	£6.30
1-5	£4.50	£12.60	£7.50

**Note:**  
**children under 5 travel free**

Work out the cheapest fare for these journeys:

14. **Ealing Broadway** to **Marble Arch** and back at 11.00am

15. **Finsbury Park** to **Oxford Circus** and back at 8.30am

16. **Harrow-on-the-Hill** to **Wembley Park** at 10.30am

17. **Arnos Grove** to **London Bridge** and back for 1 adult and 2 children under 5 at 9.00am

18. **Ladbroke Grove** to **Charing Cross** for 2 adults at 9.45am