



Maths on The LONDON UNDERGROUND ANSWERS



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**?

4 (Queensway, Lancaster Gate, Marble Arch, Bond Street)

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?

Northbound

3. Which line is **Heathrow Airport** on?

Piccadilly line

4. Find a route from **Paddington** to **Highbury and Islington** where you need to change only once.

Bakerloo line, change at Oxford Circus to Victoria line

Circle line, change at King's Cross to Victoria line

5. Which station is at the north east end of the **District** line?

Upminster

6. How many stations are there with '**Ruislip**' in the name?

5

7. Is **Kew Gardens** to the north or the south of the river?

South

8. Find two stations beginning with B that link to the national rail network.

Brixton, Balham, Barking, Bushey

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?

District line to Kensington Olympia

10. How many lines is **Hammersmith** on? *4*

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.

Piccadilly line - 9 stops (Could use Circle line but it has 17 stops)

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).

Route 1 – Circle line to South Kensington, change to District line to Wimbledon (1 change, 23 stops)

Route 2 – Central line to Notting Hill Gate, change to District line to Wimbledon (1 change, 21 stops)

Route 2 is more direct

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.

Northern line to Bank, change to Docklands Light Railway to Cutty Sark, then back to Bank, change to Central line to St. Paul’s, then on to Tottenham Court Road, change to Northern line back to Euston.

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

Zone 1-3 off peak travelcard - £6.30

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

Zone 1-2 peak time travelcard - £7.20

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

Cash single fare Zones 1-5 - £4.50

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

Zone 1-4 peak travelcard - £10.00, children are free

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

Zone 1-2 cash single fare x2 - £8.00