QUESTIONS: CHALLENGE 3

1 Use the map to find the nearest line of longitude to the cities listed in the table. Write this in the table. Check whether they are east or west of Greenwich (London).

2 A full rotation of Earth is 360°. It takes 24 hours. How long does it take for the Earth to rotate through 15° of longitude? _____

3 Work out the time in each city when it is 12.00 in London.

Remember – when you move west it gets earlier. When you move east it gets later.

City	Longitude	Time
London	0°	12.00
Moscow	30°E	
Toronto		
Honolulu		
Sydney		
Athens		

City	Longitude	Time
Colombo		
Tokyo		
Helsinki		
Beijing		
Paris		
Islamabad		

4 Check the times using World Clock on the Internet.

If any time is different, check your calculation. If this is correct, see if you can explain why the answer is different from the World Clock.

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