# Locating Places on the Earth

Standard difficulty · 20 questions · 40 marks · Time: 36 minutes

Name: _____ Date: _____ Score: ____ / 40

Write full answers in Sections B and C. Answers are on the last page — try every question first!

## Section A — Choose the correct answer — 8 × 1 = 8 marks

1. The imaginary line that divides the Earth into the Northern and Southern Hemispheres is the:
   **(a)** Tropic of Cancer **(b)** Arctic Circle
   **(c)** Prime Meridian **(d)** Equator

2. The latitude of the Tropic of Cancer is:
   **(a)** 23.5° N **(b)** 90° N **(c)** 90° S **(d)** 66.5° S

3. What is the name for the ratio of a distance on a map to the real distance?
   **(a)** Equator **(b)** time zone **(c)** sketch **(d)** scale

4. Dev stands facing north and turns around (half a turn). Which way is Dev facing now?
   **(a)** south **(b)** north **(c)** east **(d)** west

5. When it is 12:00 noon at Greenwich (0°), what is the local time at a place at 60° E?
   **(a)** 4:00 pm **(b)** 3:00 pm **(c)** 8:00 am **(d)** 5:00 pm

6. Place A is at 90° E and place B is at 165° W. What is the difference in their local times, in hours?
   **(a)** 34 hours **(b)** 5 hours **(c)** 17 hours **(d)** 18 hours

7. On a map, 1 cm stands for 10 km. Two towns are 9 cm apart on the map. How far apart are they really?
   **(a)** 90 km **(b)** 900 km **(c)** 100 km **(d)** 19 km

8. Each degree of longitude makes 4 minutes of difference in local time. How many minutes of difference do 2° make?
   **(a)** 8 minutes **(b)** 12 minutes **(c)** 30 minutes **(d)** 6 minutes

## Section B — Short answer — 8 × 2 = 16 marks

9. Give one difference between a map and a globe.

10. Write the latitude of each line: (a) the Arctic Circle (b) the Equator

11. Write the correct term: (a) the half of the Earth north of the Equator (b) the half of the Earth south of the Equator

**12.** When it is 3:30 am at Greenwich (GMT), what time is it in India (IST)? (IST is 5 hours 30 minutes ahead of GMT.)

**13.** It is 10:30 pm in India (IST). What is the time at Greenwich (GMT)?

**14.** On a map, 1 cm stands for 25 km. Two cities are 475 km apart. How far apart will they be on the map?

**15.** If you stand facing south, which direction is on your left, and which is behind you?

**16.** Two places are 95° of longitude apart. What is the difference in their local times? Give your answer in hours and minutes.

## Section C — Longer answers — 4 × 4 = 16 marks

**17.** Explain how latitude and longitude together give the exact location of a place. Give an example.

**18.** A cricket match in London starts at 12:00 noon local time (GMT). (a) What time is it in India when it starts? (b) The match lasts 7 hours. At what time in India does it end?

**19.** Town A is at 30° E and town B is at 60° E. (a) When it is 12:00 noon in town A, what is the local time in town B? (b) Which town sees the sunrise first, and why?

**20.** On a map with a scale of 1 cm to 10 km, a road trip goes from A to B (3 cm), B to C (8 cm) and C to D (9 cm). (a) How far is the whole trip really? (b) A bus covers 25 km in an hour. How long will the trip take?

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# Answer key

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| Q | Answer | Working |
|---|---|---|
| 1 | **(d) Equator** | — |
| 2 | **(a) 23.5° N** | — |
| 3 | **(d) scale** | — |
| 4 | **(a) south** | right is a quarter turn clockwise: north → east → south → west |
| 5 | **(a) 4:00 pm** | 60° × 4 minutes = 4 hours ahead (east is ahead) |
| 6 | **(c) 17 hours** | on opposite sides of Greenwich: 90° + 165° = 255°; ÷ 15 = 17 |
| 7 | **(a) 90 km** | 9 × 10 = 90 |
| 8 | **(a) 8 minutes** | 2 × 4 = 8 |
| 9 | **A globe is a round model that shows the Earth's true shape; a map is flat and can show a small area in detail.** | — |
| 10 | **(a) 66.5° N (b) 0°** | — |
| 11 | **(a) Northern Hemisphere (b) Southern Hemisphere** | — |
| 12 | **9:00 am** | 3:30 am + 5 hours 30 minutes |
| 13 | **5:00 pm** | 10:30 pm − 5 hours 30 minutes |
| 14 | **19 cm** | 475 ÷ 25 = 19 |
| 15 | **left: east; behind you: north** | a right turn is a quarter turn clockwise; behind you is half a turn |
| 16 | **6 hours 20 minutes** | 95 × 4 = 380 minutes = 6 hours 20 minutes |
| 17 | **A place lies where its line of latitude (north or south of the Equator) crosses its line of longitude (east or west of Greenwich). For example, New Delhi is at about 28.6° N and 77.2° E; these two numbers fix it on a globe or a map.** | — |
| 18 | **(a) 5:30 pm (b) 12:30 am** | IST = GMT + 5 hours 30 minutes; then add 7 hours |
| 19 | **(a) 2:00 pm (b) Town B, because it is further east and the Earth turns from west to east.** | 30° × 4 minutes = 2 hours ahead |
| 20 | **(a) 200 km (b) 8 hours** | (3 + 8 + 9) × 10 = 200 km; 200 ÷ 25 |



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