Teacher Answer Key

Answers for the Sample Worksheet, the Classroom Quiz and the lesson's exit ticket.

TOPIC	LEVEL	STRAND	FOR
Latitude & Longitude	Grades 5–8	Map skills	Teachers only

Worksheet – Part A: Key words

Word	Answer
1. Equator	**c**
2. Prime Meridian	**e**
3. Latitude	**f**
4. Longitude	**b**
5. Hemisphere	**a**
6. Coordinates	**d**

Worksheet – Part B: Read the grid

Point	Latitude	Longitude
A	**40°N**	**60°W**
B	**20°S**	**40°E**
C	**0°**	**100°E**
D	**60°N**	**120°E**
E	**40°S**	**140°W**
F	**20°N**	**0°**

Accept 0° written as "0°", "0° (Equator)" or "0° (Prime Meridian)".

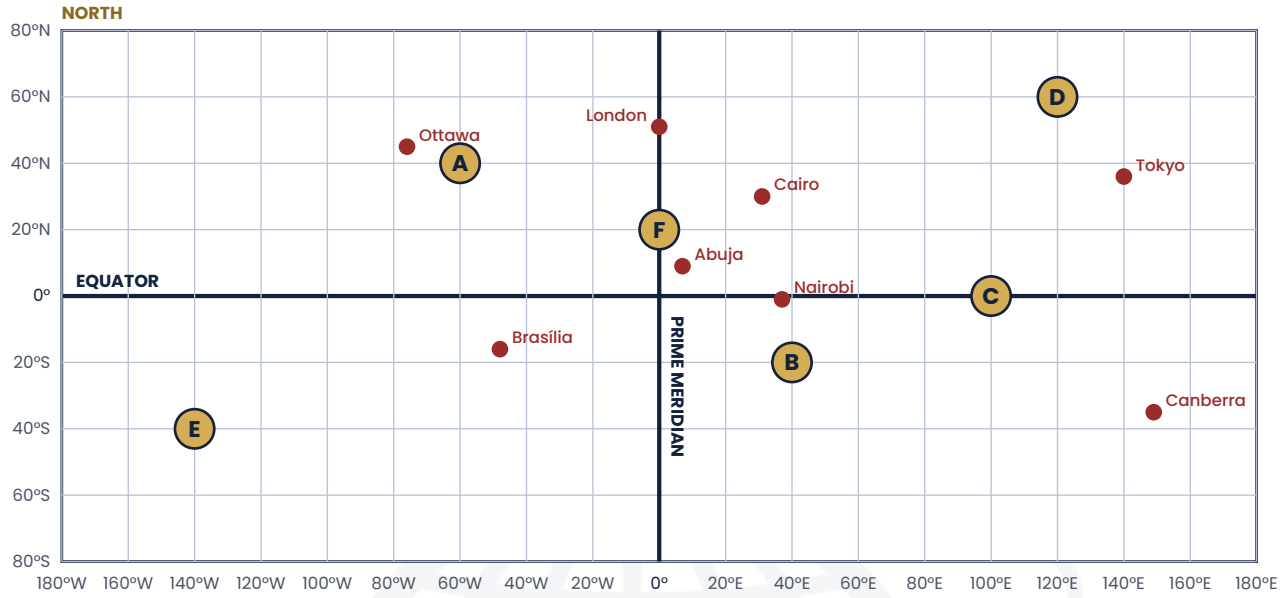
Worksheet – Part C: Capital cities

Capital city	Coordinates	N or S	E or W
Abuja	9°N, 7°E	**N**	**E**
Cairo	30°N, 31°E	**N**	**E**
London	51°N, 0°	**N**	**On the Prime Meridian (0°)**
Tokyo	36°N, 140°E	**N**	**E**
Brasília	16°S, 48°W	**S**	**W**
Canberra	35°S, 149°E	**S**	**E**
Nairobi	1°S, 37°E	**S**	**E**
Ottawa	45°N, 76°W	**N**	**W**

London sits almost exactly on the Prime Meridian (its centre is about 0.1° west). Accept "W", "E/W" or "on the Prime Meridian".

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Bonus: cities marked on the grid



Worksheet – Part D: Think it through

#	Answer
1	**London (51°N).**
2	**Nairobi (1°S).**
3	**Brasília (16°S, 48°W).**
4	**The Prime Meridian, the 0° line of longitude, passes through Greenwich in London, so London is at (almost exactly) 0° longitude.**

Lesson exit ticket

#	Answer
1	**0°**
2	**20°S, 40°E**
3	**Southern and Western Hemispheres**

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Classroom Quiz

#	Answer	Why
1	**B – 0°**	The Equator is the starting line for latitude, so it is 0°.
2	**C – Greenwich, London**	The Prime Meridian (0° longitude) runs through Greenwich in London, UK.
3	**B – East–west**	Lines of latitude run east–west, parallel to the Equator, like the rungs of a ladder.
4	**A – 90°**	Latitude goes from 0° at the Equator to 90° at the North and South Poles.
5	**C – 180°**	Longitude runs from 0° at the Prime Meridian to 180° east or west.
6	**D – Southern and Western**	S means south of the Equator and W means west of the Prime Meridian. (This is Brasília, Brazil.)
7	**B – Latitude**	By convention we write latitude first, then longitude: 9°N, 7°E.
8	**C – Tropic of Cancer**	The Tropic of Cancer is at about 23.5°N. The Tropic of Capricorn is at about 23.5°S.
9	**B – Nairobi (1°S)**	Nairobi is only about 1° south of the Equator.
10	**C – 180°**	The Date Line roughly follows 180°, on the opposite side of the Earth from the Prime Meridian.

Scoring guide: 9–10 secure · 6–8 developing (review hemispheres and the latitude-first rule) · 0–5 reteach with the Human Grid activity.

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