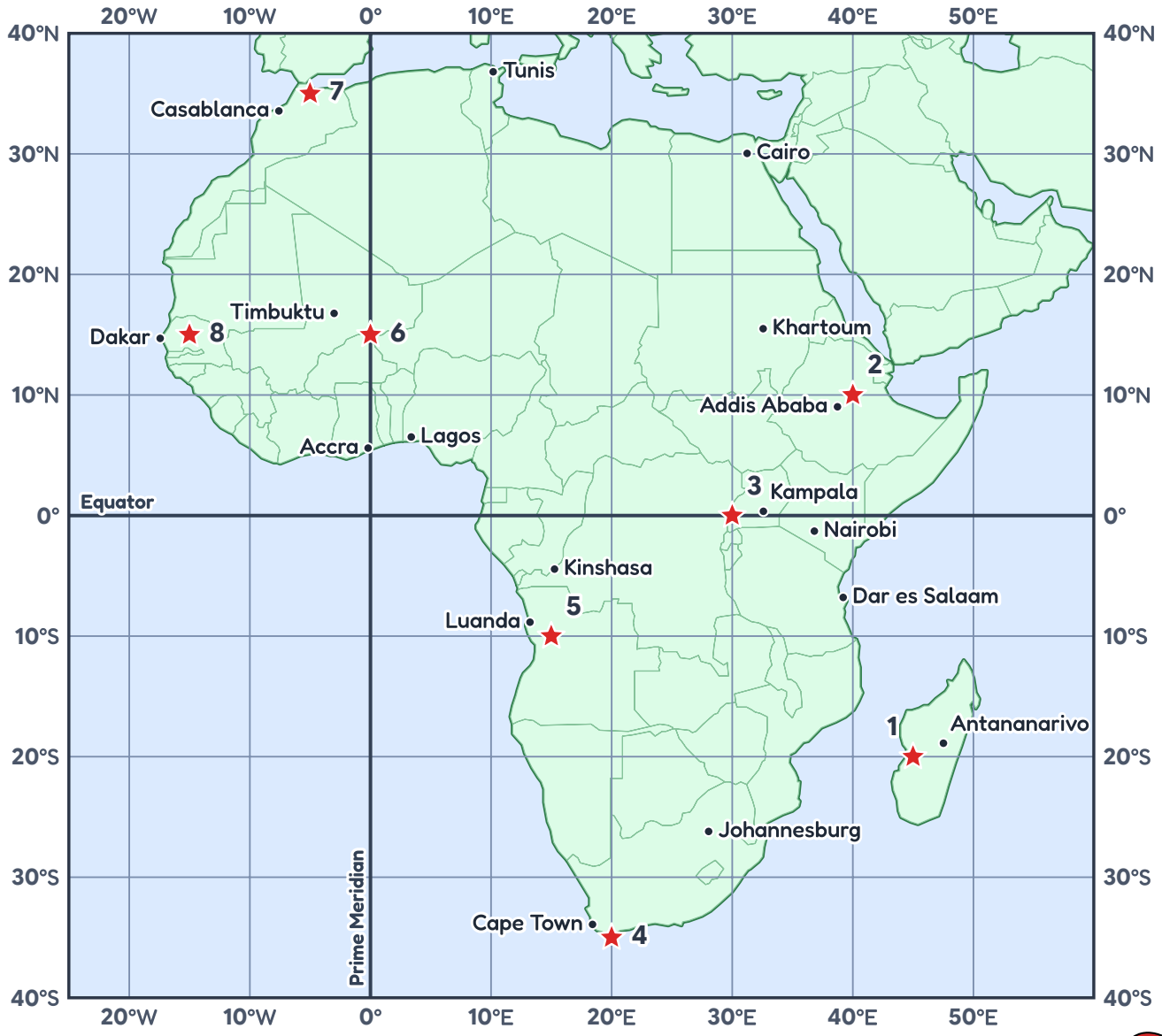
Name _____ Date _____



Santa Tracker

Write the latitude and longitude of each sighting.



Sightings over Africa

Example Sighting 1 is done for you.



No.	Near	Latitude	Longitude
1	Antananarivo	20°S	45°E
2	Addis Ababa		
3	Kampala		
4	Cape Town		

No.	Near	Latitude	Longitude
5	Luanda		
6	Timbuktu		
7	Casablanca		
8	Dakar		

ANIMAL MATH

Find worksheets, teacher tools, and more at animalmath.com

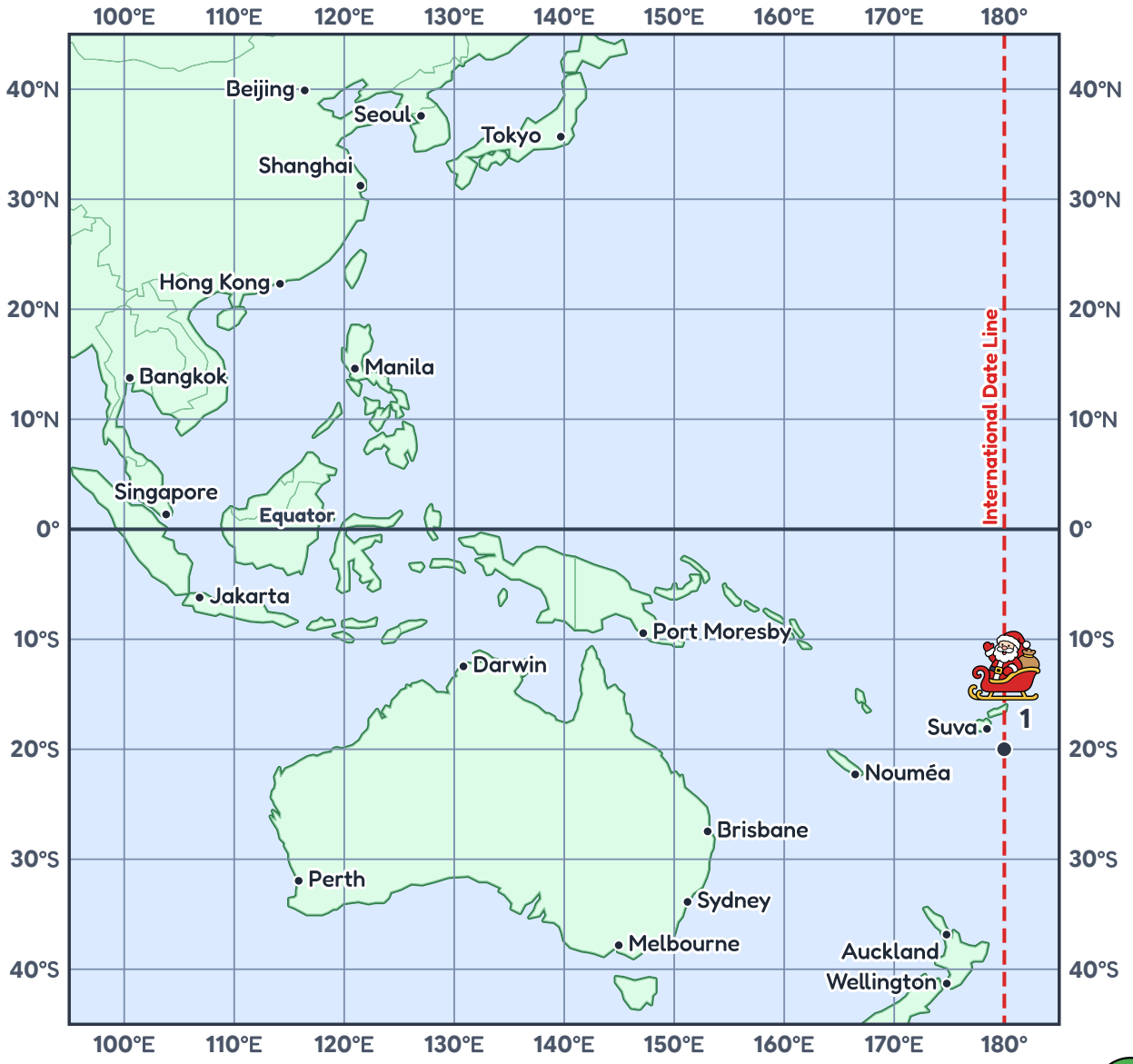
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Name _____ Date _____



Santa Tracker

Plot and join the sightings in order. Name the nearest city.



Leg 1: The Pacific, Australia and Asia

Example Sighting 1 is done for you.



No.	Latitude	Longitude	Nearest city
1	20°S	180°	Suva
2	35°S	175°E	
3	35°S	150°E	
4	10°S	145°E	

No.	Latitude	Longitude	Nearest city
5	35°N	140°E	
6	30°N	120°E	
7	15°N	120°E	
8	5°S	105°E	

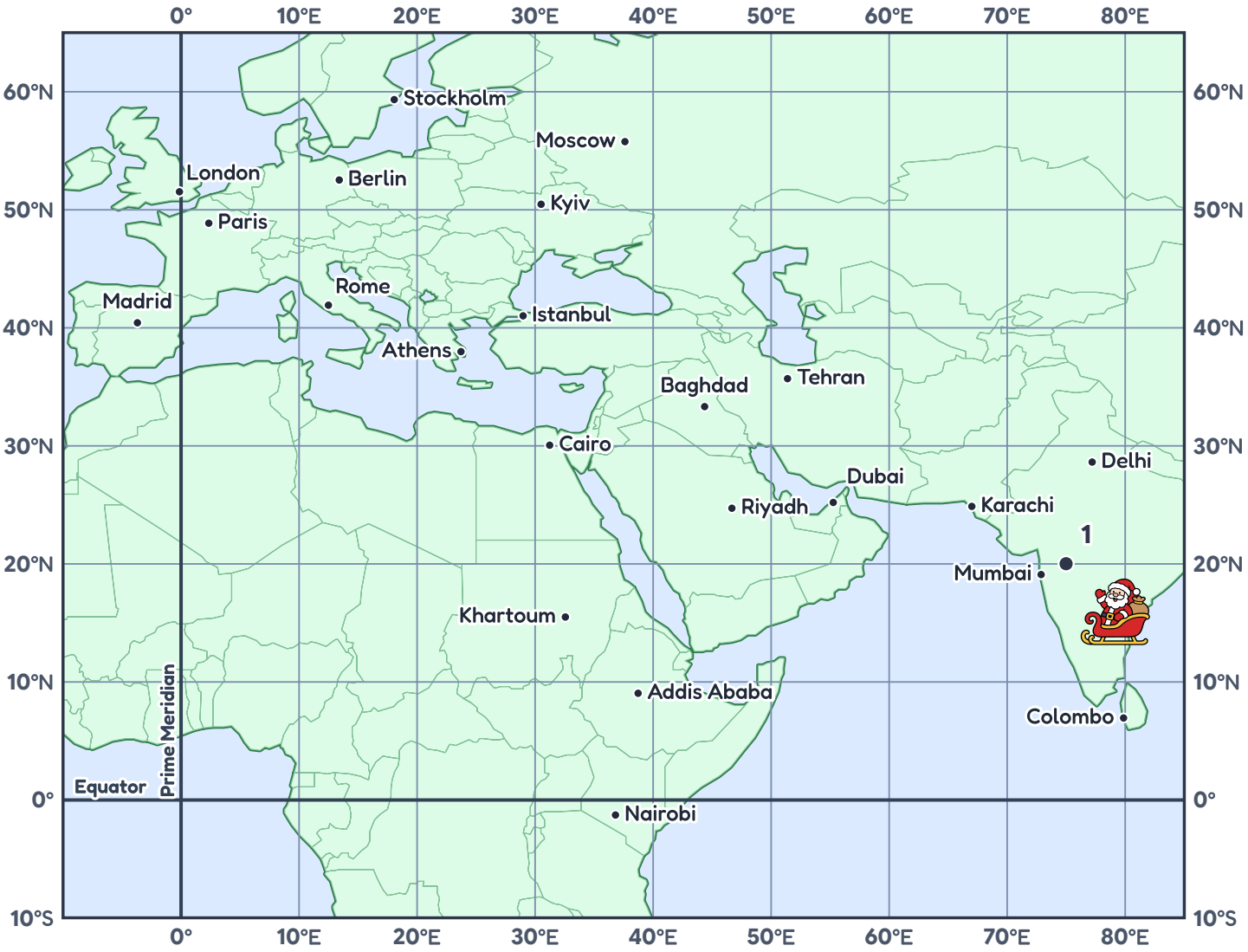
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Name _____ Date _____



Santa Tracker

Plot and join the sightings in order. Name the nearest city.



Leg 2: South Asia, Africa and Europe

Example Sighting **1** is done for you.



No.	Latitude	Longitude	Nearest city
1	20°N	75°E	Mumbai
2	25°N	55°E	
3	55°N	40°E	
4	0°	35°E	

No.	Latitude	Longitude	Nearest city
5	30°N	30°E	
6	40°N	25°E	
7	40°N	15°E	
8	50°N	0°	

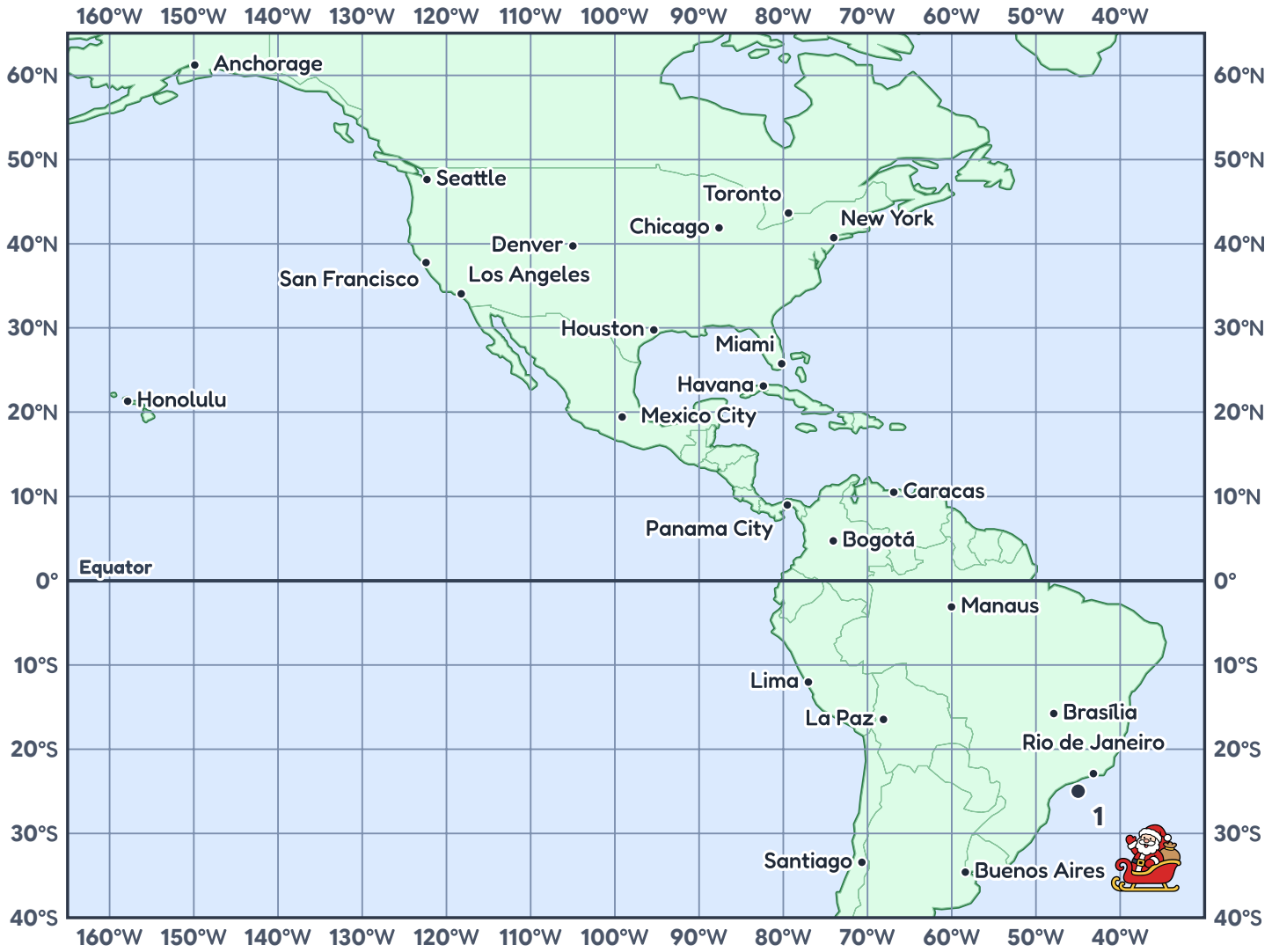
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Name _____ Date _____



Santa Tracker

Plot and join the sightings in order. Name the nearest city.



Leg 3: The Americas to Hawaii

Example Sighting **1** is done for you.



No.	Latitude	Longitude	Nearest city
1	25°S	45°W	Rio de Janeiro
2	10°S	75°W	
3	10°N	80°W	
4	40°N	75°W	

No.	Latitude	Longitude	Nearest city
5	20°N	100°W	
6	35°N	120°W	
7	60°N	150°W	
8	20°N	160°W	

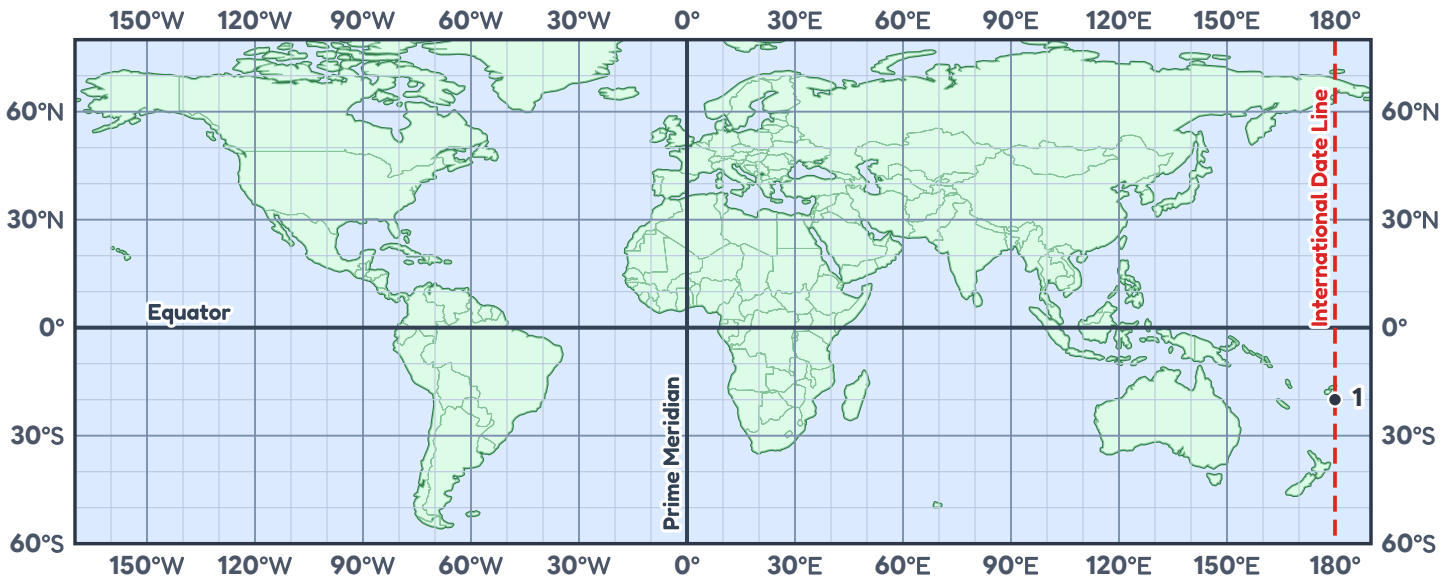
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Name _____ Date _____



Santa Tracker

Plot the main stops of the night and draw the path.



The night's main stops

Example Stop **1** is done for you.



Stop	City	Latitude	Longitude
1	Suva	20°S	180°
2	Sydney	35°S	150°E
3	Tokyo	35°N	140°E
4	Mumbai	20°N	75°E
5	Cairo	30°N	30°E

Stop	City	Latitude	Longitude
6	London	50°N	0°
7	Rio de Janeiro	25°S	45°W
8	New York	40°N	75°W
9	Mexico City	20°N	100°W
10	Honolulu	20°N	160°W

1. All night, which way does Santa fly? **Example** east (west)
2. Which stops are south of the Equator? _____
3. Which three stops are on the line of latitude 20°N? _____
4. Which stop is farthest north? _____
5. How many times does Santa's path cross the Equator? _____
6. How many degrees of latitude is it from Sydney to Tokyo? _____

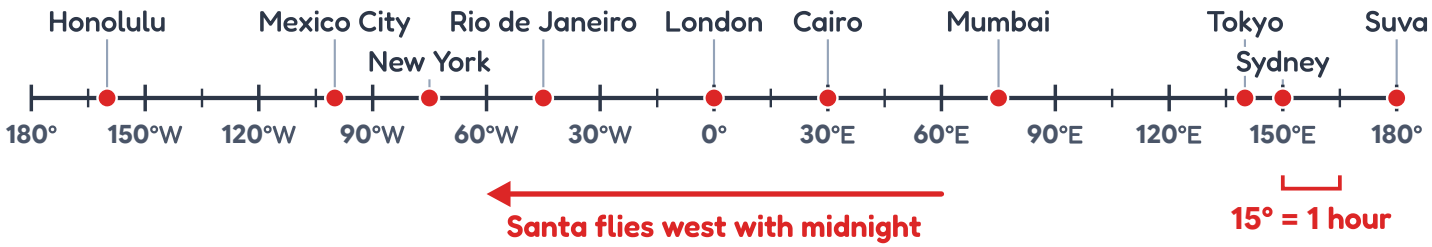
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Name _____ Date _____



Santa Tracker

Midnight moves west 15° of longitude every hour.



How far does midnight move?

Example Row 1 is done for you.



No.	From	To	Degrees of longitude	Hours
1	Cairo (30°E)	London (0°)	30°	2
2	Mumbai (75°E)	Cairo (30°E)		
3	Sydney (150°E)	Mumbai (75°E)		
4	Rio de Janeiro (45°W)	New York (75°W)		
5	Cairo (30°E)	New York (75°W)		
6	Mumbai (75°E)	New York (75°W)		
7	Suva (180°)	London (0°)		
8	Suva (180°)	New York (75°W)		

Circle the two hemispheres each stop is in.

Example Sydney is done for you.

1. Sydney (35°S, 150°E) — Northern, **Southern**, **Eastern**, Western
2. Tokyo (35°N, 140°E) — Northern, Southern, Eastern, Western
3. Rio de Janeiro (25°S, 45°W) — Northern, Southern, Eastern, Western
4. Honolulu (20°N, 160°W) — Northern, Southern, Eastern, Western
5. Mexico City (20°N, 100°W) — Northern, Southern, Eastern, Western

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Name _____ Date _____



Santa Tracker

Write the latitude and longitude of each sighting.



Sightings over Africa

Example Sighting **1** is done for you.



No.	Near	Latitude	Longitude
1	Antananarivo	20°S	45°E
2	Addis Ababa		
3	Kampala		
4	Cape Town		

No.	Near	Latitude	Longitude
5	Luanda		
6	Timbuktu		
7	Casablanca		
8	Dakar		

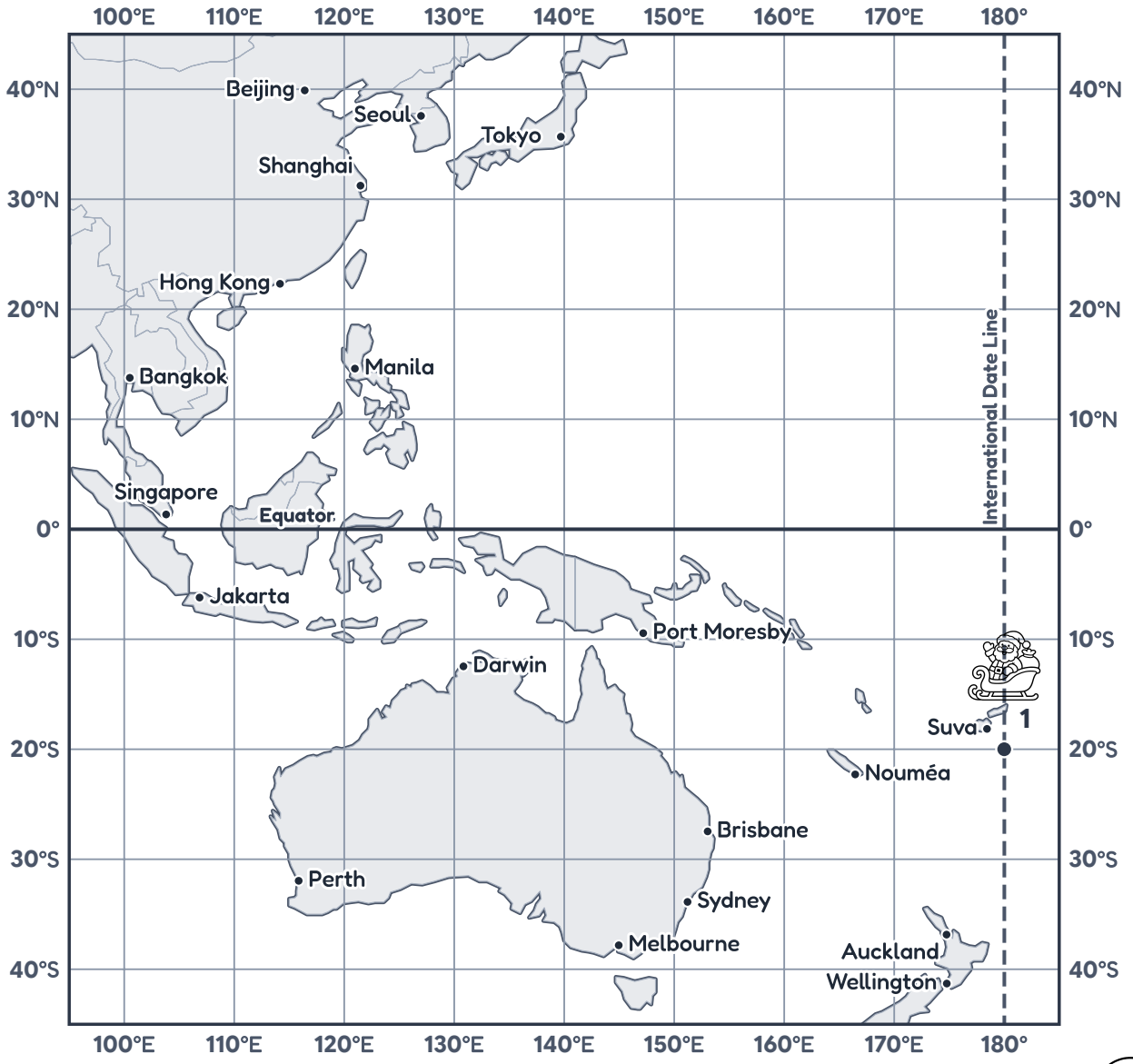
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Name _____ Date _____



Santa Tracker

Plot and join the sightings in order. Name the nearest city.



Leg 1: The Pacific, Australia and Asia

Example Sighting 1 is done for you.



No.	Latitude	Longitude	Nearest city
1	20°S	180°	Suva
2	35°S	175°E	
3	35°S	150°E	
4	10°S	145°E	

No.	Latitude	Longitude	Nearest city
5	35°N	140°E	
6	30°N	120°E	
7	15°N	120°E	
8	5°S	105°E	

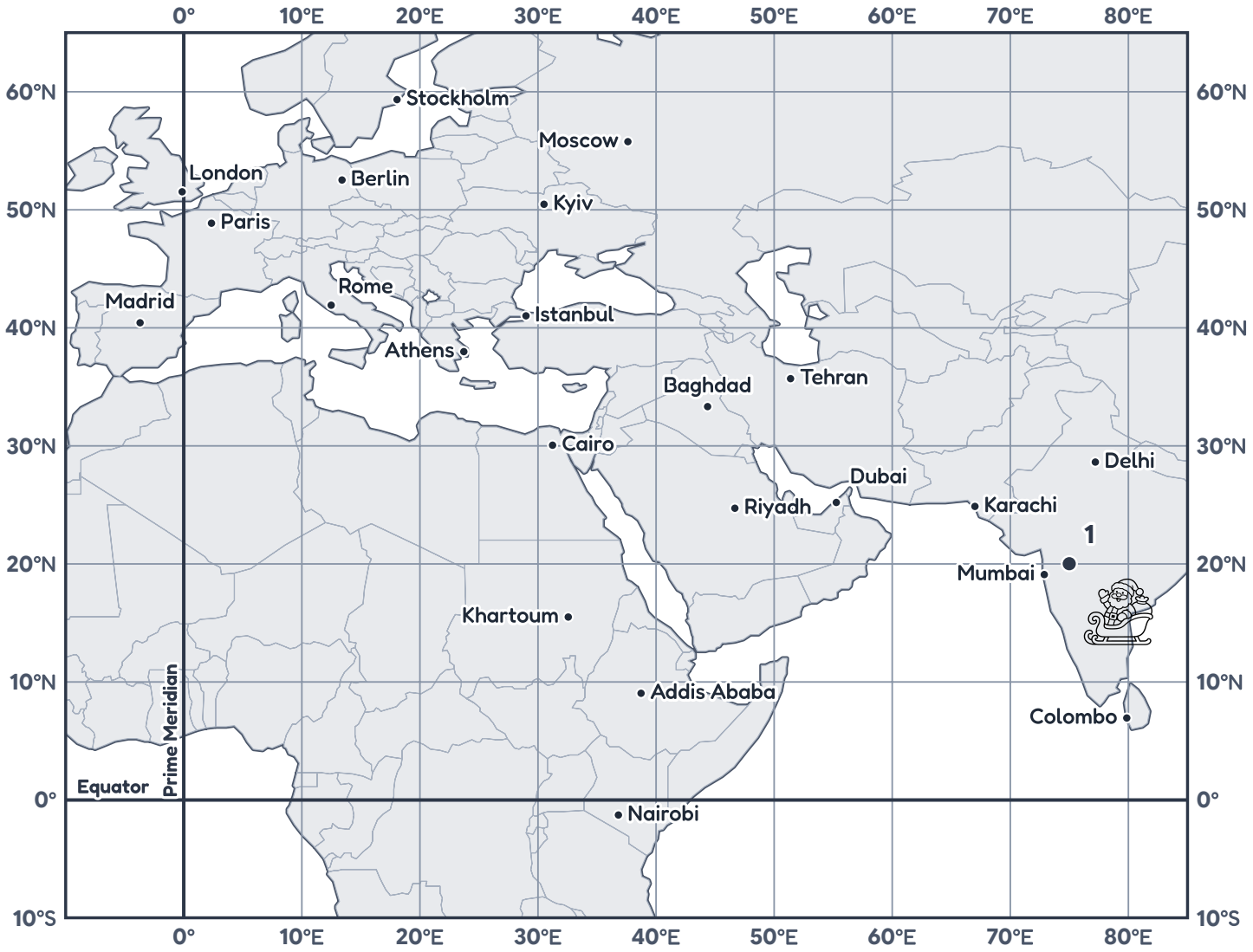
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Name _____ Date _____



Santa Tracker

Plot and join the sightings in order. Name the nearest city.



Leg 2: South Asia, Africa and Europe

Example Sighting 1 is done for you.



No.	Latitude	Longitude	Nearest city
1	20°N	75°E	Mumbai
2	25°N	55°E	
3	55°N	40°E	
4	0°	35°E	

No.	Latitude	Longitude	Nearest city
5	30°N	30°E	
6	40°N	25°E	
7	40°N	15°E	
8	50°N	0°	

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Name _____ Date _____



Santa Tracker

Plot and join the sightings in order. Name the nearest city.



Leg 3: The Americas to Hawaii

Example Sighting 1 is done for you.



No.	Latitude	Longitude	Nearest city
1	25°S	45°W	Rio de Janeiro
2	10°S	75°W	
3	10°N	80°W	
4	40°N	75°W	

No.	Latitude	Longitude	Nearest city
5	20°N	100°W	
6	35°N	120°W	
7	60°N	150°W	
8	20°N	160°W	

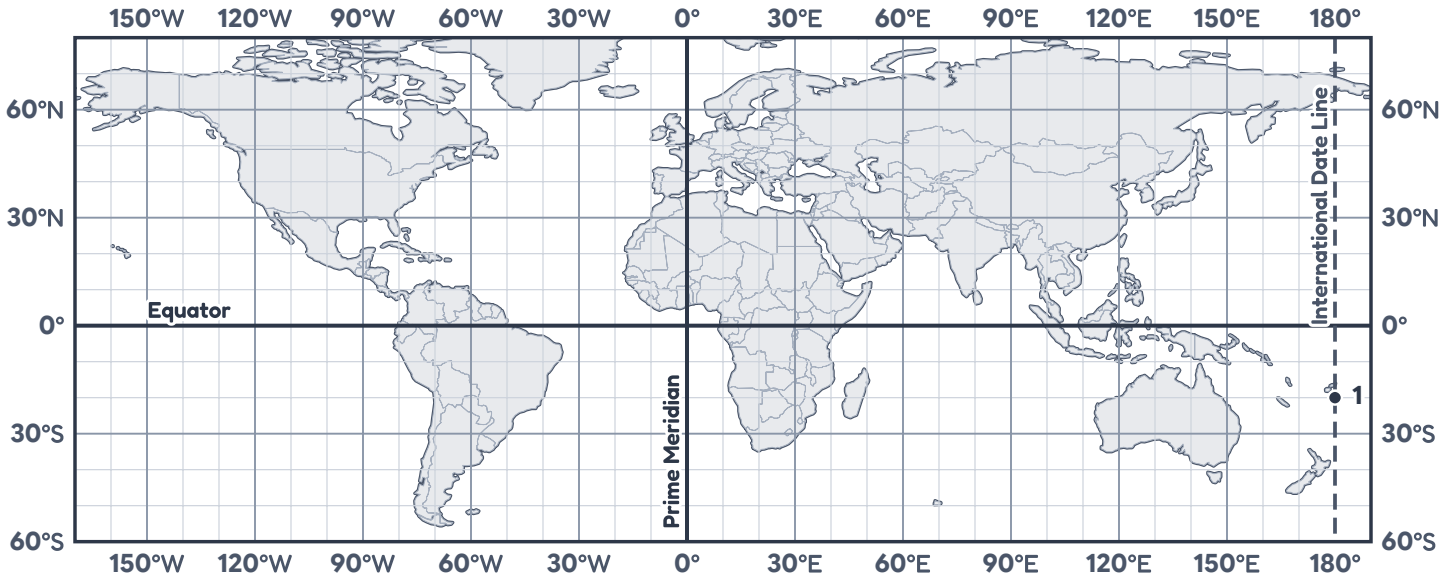
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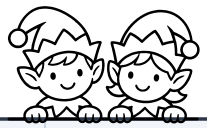
Santa Tracker

Plot the main stops of the night and draw the path.



The night's main stops

Example Stop **1** is done for you.



Stop	City	Latitude	Longitude
1	Suva	20°S	180°
2	Sydney	35°S	150°E
3	Tokyo	35°N	140°E
4	Mumbai	20°N	75°E
5	Cairo	30°N	30°E

Stop	City	Latitude	Longitude
6	London	50°N	0°
7	Rio de Janeiro	25°S	45°W
8	New York	40°N	75°W
9	Mexico City	20°N	100°W
10	Honolulu	20°N	160°W

1. All night, which way does Santa fly? Example east (west)
2. Which stops are south of the Equator? _____
3. Which three stops are on the line of latitude **20°N**? _____
4. Which stop is farthest north? _____
5. How many times does Santa's path cross the Equator? _____
6. How many degrees of latitude is it from Sydney to Tokyo? _____

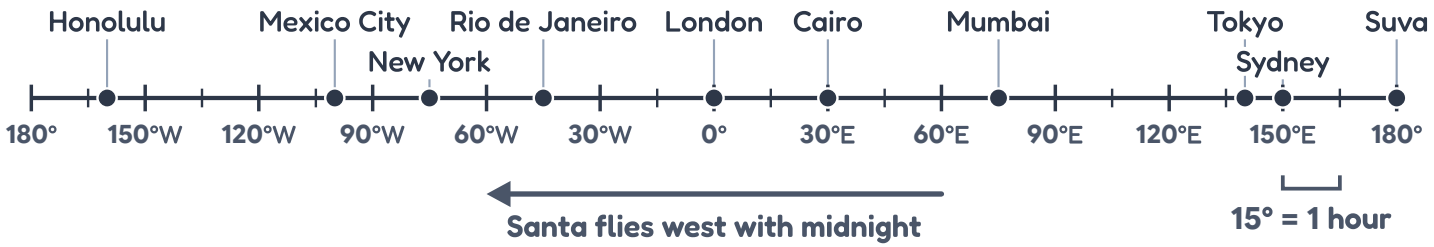
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Name _____ Date _____



Santa Tracker

Midnight moves west 15° of longitude every hour.



How far does midnight move?

Example Row 1 is done for you.



No.	From	To	Degrees of longitude	Hours
1	Cairo (30°E)	London (0°)	30°	2
2	Mumbai (75°E)	Cairo (30°E)		
3	Sydney (150°E)	Mumbai (75°E)		
4	Rio de Janeiro (45°W)	New York (75°W)		
5	Cairo (30°E)	New York (75°W)		
6	Mumbai (75°E)	New York (75°W)		
7	Suva (180°)	London (0°)		
8	Suva (180°)	New York (75°W)		

Circle the two hemispheres each stop is in.

Example Sydney is done for you.

1. Sydney (35°S, 150°E) — Northern, **Southern**, **Eastern**, Western
2. Tokyo (35°N, 140°E) — Northern, Southern, Eastern, Western
3. Rio de Janeiro (25°S, 45°W) — Northern, Southern, Eastern, Western
4. Honolulu (20°N, 160°W) — Northern, Southern, Eastern, Western
5. Mexico City (20°N, 100°W) — Northern, Southern, Eastern, Western

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Santa Tracker

Write the latitude and longitude of each sighting.



Sightings over Africa

Example Sighting **1** is done for you.



No.	Near	Latitude	Longitude
1	Antananarivo	20°S	45°E
2	Addis Ababa	10°N	40°E
3	Kampala	0°	30°E
4	Cape Town	35°S	20°E

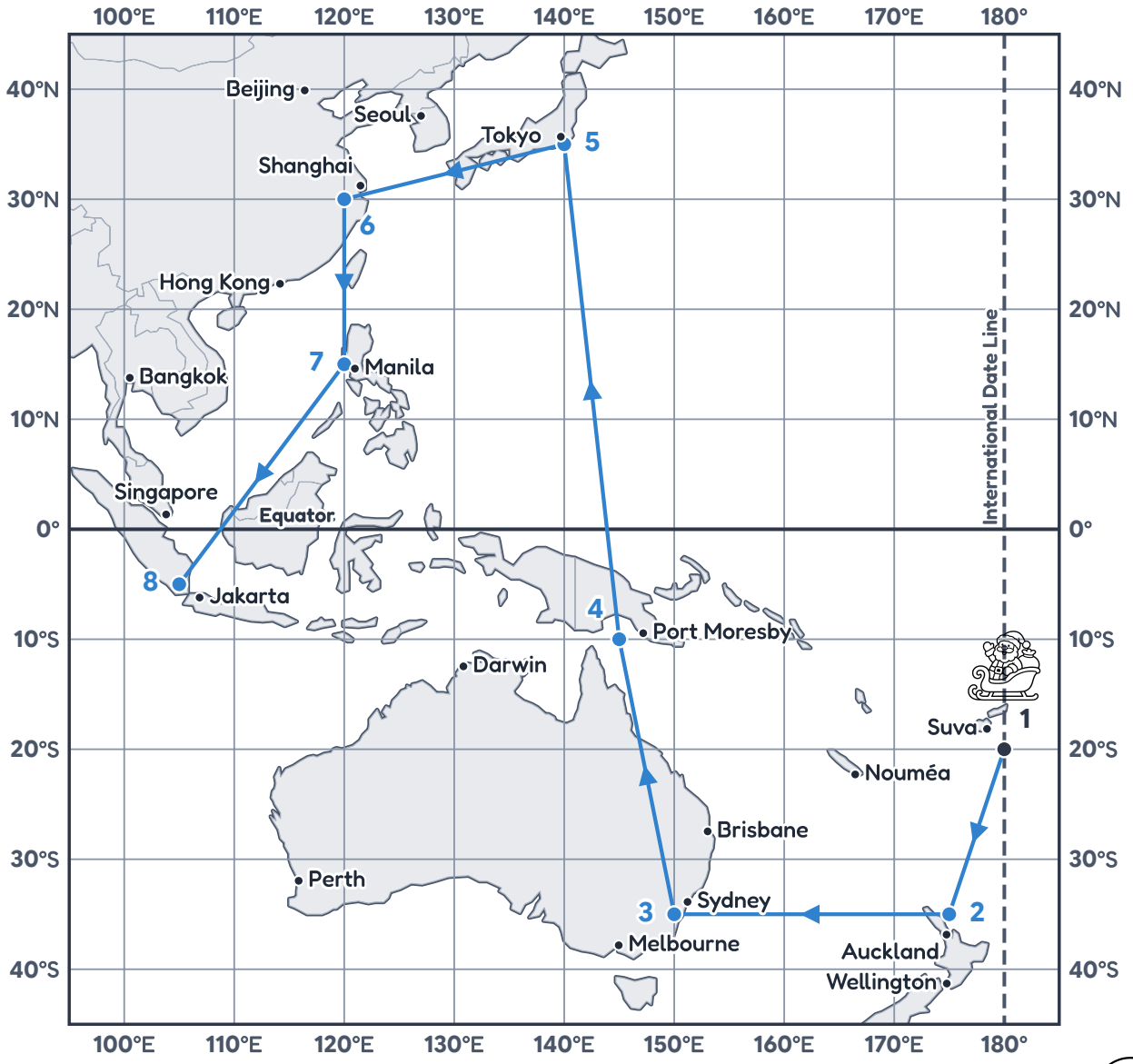
No.	Near	Latitude	Longitude
5	Luanda	10°S	15°E
6	Timbuktu	15°N	0°
7	Casablanca	35°N	5°W
8	Dakar	15°N	15°W

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Santa Tracker

Plot and join the sightings in order. Name the nearest city.



Leg 1: The Pacific, Australia and Asia

Example Sighting 1 is done for you.



No.	Latitude	Longitude	Nearest city
1	20°S	180°	Suva
2	35°S	175°E	Auckland
3	35°S	150°E	Sydney
4	10°S	145°E	Port Moresby

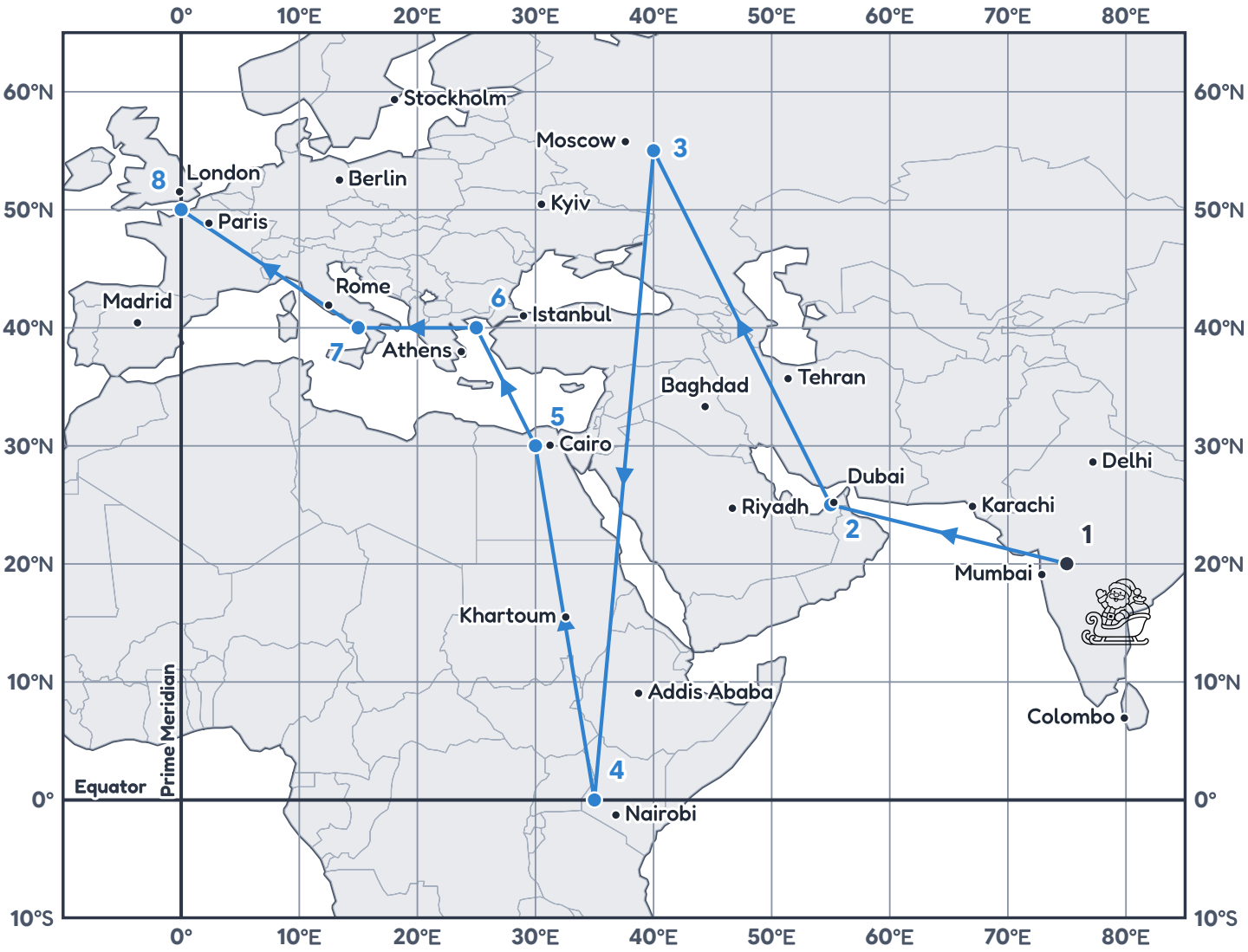
No.	Latitude	Longitude	Nearest city
5	35°N	140°E	Tokyo
6	30°N	120°E	Shanghai
7	15°N	120°E	Manila
8	5°S	105°E	Jakarta

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Santa Tracker

Plot and join the sightings in order. Name the nearest city.



Leg 2: South Asia, Africa and Europe

Example Sighting 1 is done for you.



No.	Latitude	Longitude	Nearest city
1	20°N	75°E	Mumbai
2	25°N	55°E	Dubai
3	55°N	40°E	Moscow
4	0°	35°E	Nairobi

No.	Latitude	Longitude	Nearest city
5	30°N	30°E	Cairo
6	40°N	25°E	Athens
7	40°N	15°E	Rome
8	50°N	0°	London

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Santa Tracker

Plot and join the sightings in order. Name the nearest city.



Leg 3: The Americas to Hawaii

Example Sighting 1 is done for you.



No.	Latitude	Longitude	Nearest city
1	25°S	45°W	Rio de Janeiro
2	10°S	75°W	Lima
3	10°N	80°W	Panama City
4	40°N	75°W	New York

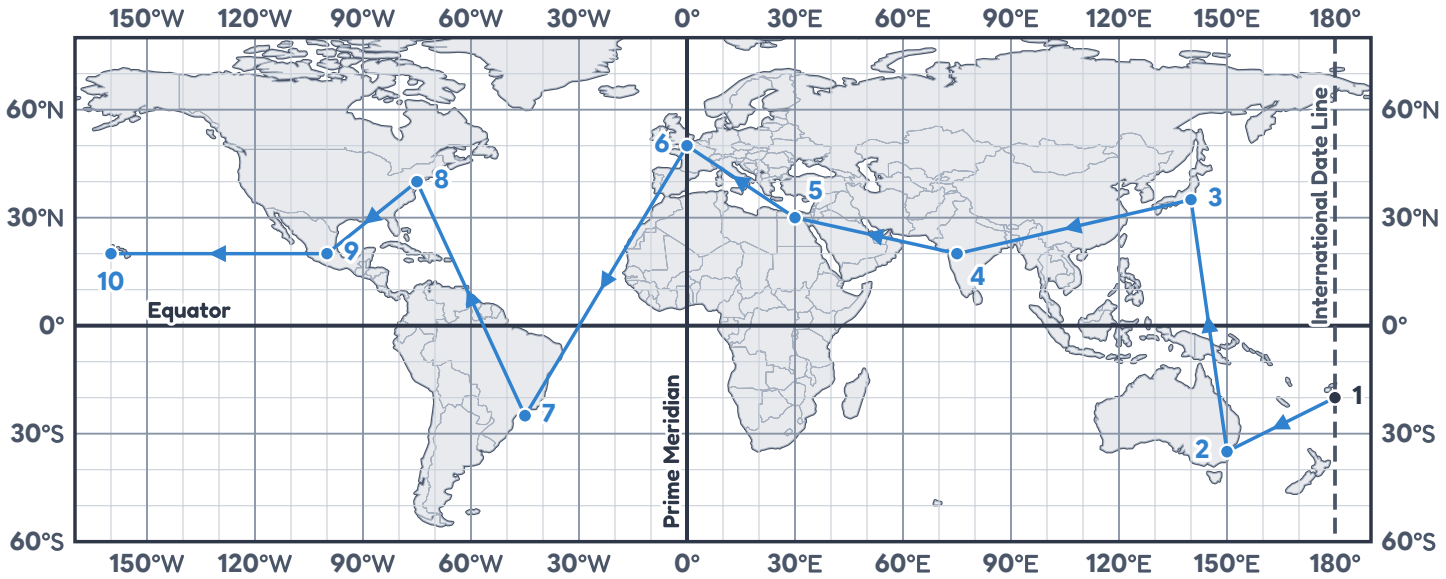
No.	Latitude	Longitude	Nearest city
5	20°N	100°W	Mexico City
6	35°N	120°W	Los Angeles
7	60°N	150°W	Anchorage
8	20°N	160°W	Honolulu

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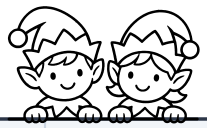
Santa Tracker

Plot the main stops of the night and draw the path.



The night's main stops

Example Stop 1 is done for you.



Stop	City	Latitude	Longitude
1	Suva	20°S	180°
2	Sydney	35°S	150°E
3	Tokyo	35°N	140°E
4	Mumbai	20°N	75°E
5	Cairo	30°N	30°E

Stop	City	Latitude	Longitude
6	London	50°N	0°
7	Rio de Janeiro	25°S	45°W
8	New York	40°N	75°W
9	Mexico City	20°N	100°W
10	Honolulu	20°N	160°W

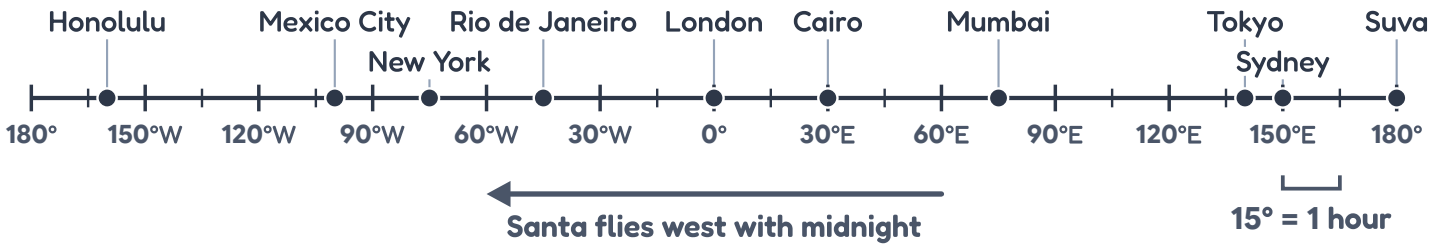
1. All night, which way does Santa fly? Example east **west**
2. Which stops are south of the Equator? **1, 2 and 7**
3. Which three stops are on the line of latitude 20°N? **4, 9 and 10**
4. Which stop is farthest north? **6 (London)**
5. How many times does Santa's path cross the Equator? **3**
6. How many degrees of latitude is it from Sydney to Tokyo? **70°**

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Santa Tracker

Midnight moves west 15° of longitude every hour.



How far does midnight move?

Example Row 1 is done for you.



No.	From	To	Degrees of longitude	Hours
1	Cairo (30°E)	London (0°)	30°	2
2	Mumbai (75°E)	Cairo (30°E)	45°	3
3	Sydney (150°E)	Mumbai (75°E)	75°	5
4	Rio de Janeiro (45°W)	New York (75°W)	30°	2
5	Cairo (30°E)	New York (75°W)	105°	7
6	Mumbai (75°E)	New York (75°W)	150°	10
7	Suva (180°)	London (0°)	180°	12
8	Suva (180°)	New York (75°W)	255°	17

Circle the two hemispheres each stop is in.

Example Sydney is done for you.

1. Sydney (35°S, 150°E) — Northern, **Southern**, **Eastern**, Western
2. Tokyo (35°N, 140°E) — **Northern**, Southern, **Eastern**, Western
3. Rio de Janeiro (25°S, 45°W) — Northern, **Southern**, Eastern, **Western**
4. Honolulu (20°N, 160°W) — **Northern**, Southern, Eastern, **Western**
5. Mexico City (20°N, 100°W) — **Northern**, Southern, Eastern, **Western**

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