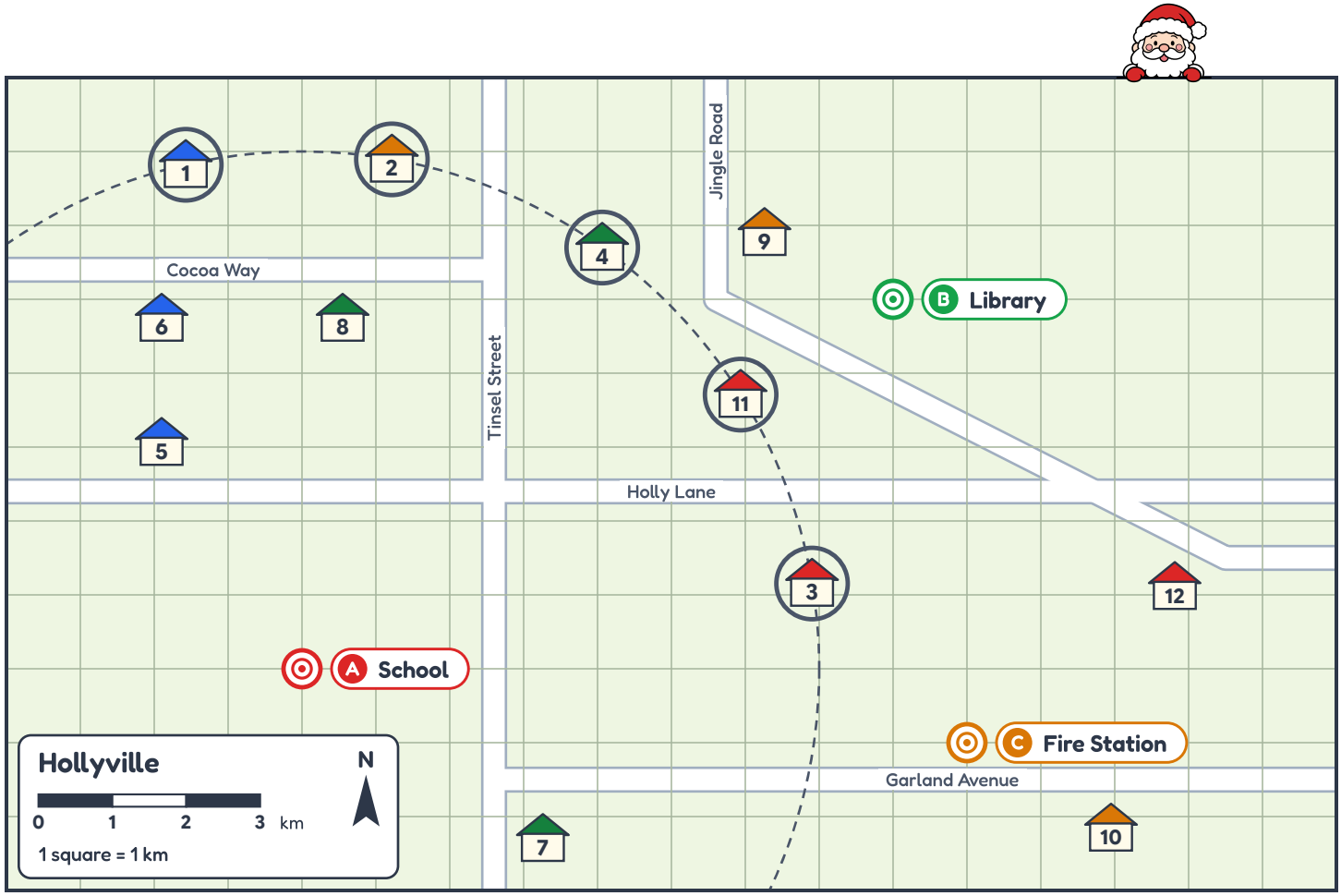
Name _____ Date _____



Santa Radar

How radar finds Santa's sleigh: one distance at a time.



Step 1 Example

At **7:00** p.m. Santa's sleigh was **7** km from the School (A). Every house **7** km away is on this circle.

Houses **1, 2, 3, 4, 11**

Step 2

It was **4** km from the Library (B). Draw that circle. Which two houses are on both circles?

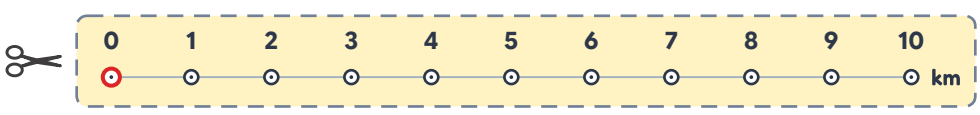
Houses _____ and _____

Step 3

It was **3** km from the Fire Station (C). Draw that circle. Which house is on all three circles?

House _____

One distance gives a circle. Two give two points. Three give one house!



Cut out the radar strip. Hold a pencil in hole **0** on the lookout and a second in the hole for the distance. Turn.

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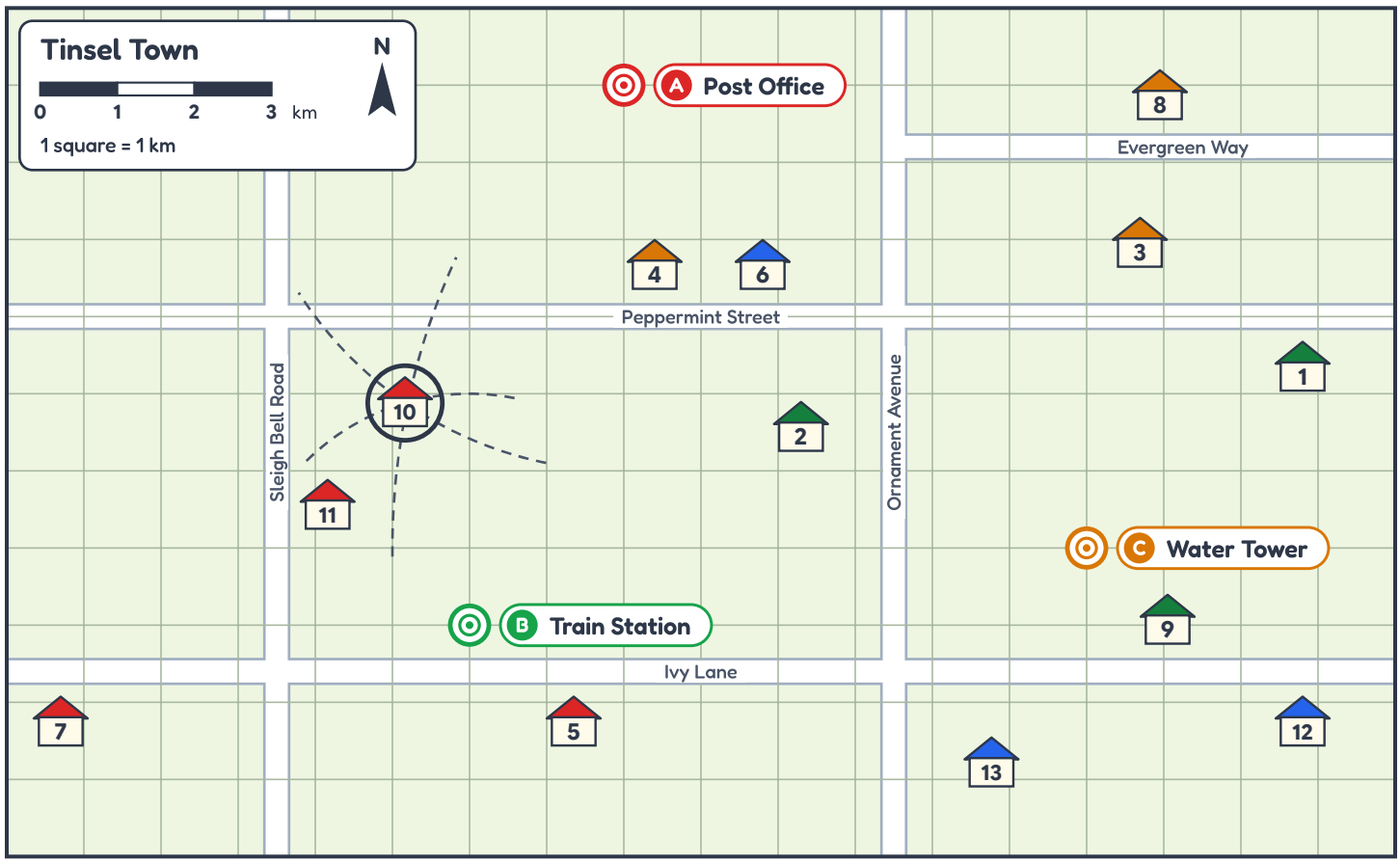
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Name _____ Date _____



Santa Radar

Draw the circles, find each house, then draw the path.



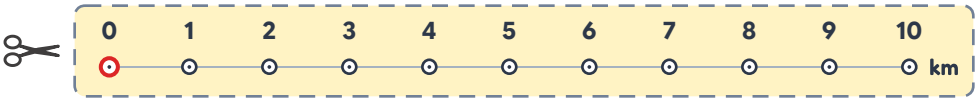
Time	A Post Office	B Train Station	C Water Tower	House
8:00 p.m.	5 km	3 km	9 km	10 Example
8:15 p.m.	5 km	5 km	4 km	
8:35 p.m.	10 km	7 km	3 km	
8:50 p.m.	7 km	10 km	4 km	

Then join the houses in time order to draw Santa's path.

Which way did Santa's sleigh fly from its **8:00** stop to its **8:15** stop?

north **east** **south** **west**





Radar strip: cut it out, or use a compass opened to that many squares.

ANIMAL MATH

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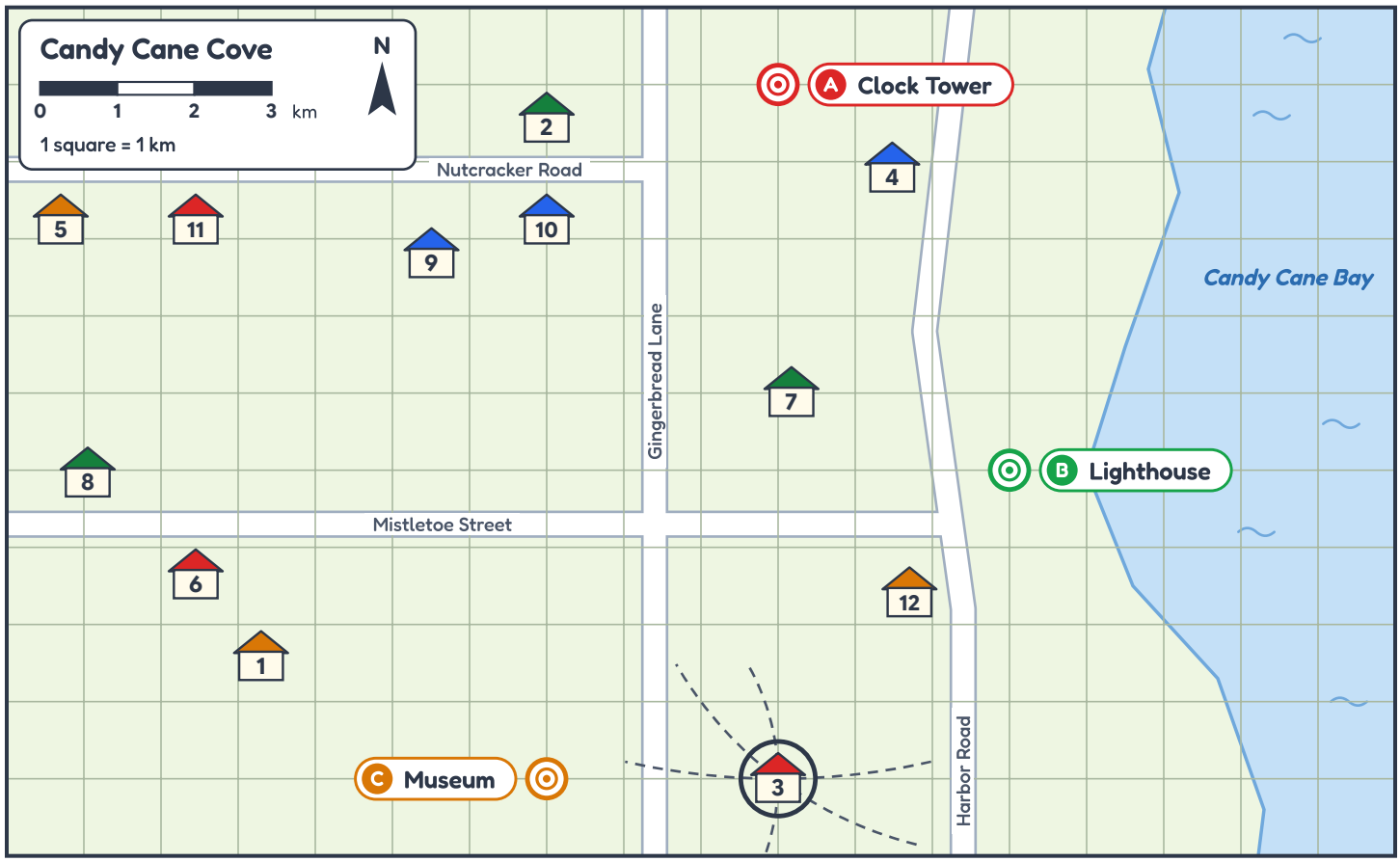
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Name _____ Date _____



Santa Radar

Draw the circles, find each house, then draw the path.



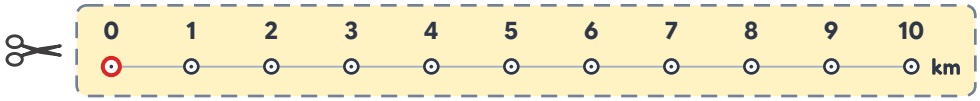
Time	A Clock Tower	B Lighthouse	C Museum	House
9:05 p.m.	9 km	5 km	3 km	3 Example
9:20 p.m.	4 km	3 km	6 km	
9:40 p.m.	5 km	8 km	7 km	
10:10 p.m.	10 km	10 km	4 km	

Then join the houses in time order to draw Santa's path.

How long was it from the **9:05** sighting to the **10:10** sighting?

_____ hour _____ minutes or _____ minutes





Radar strip: cut it out, or use a compass opened to that many squares.

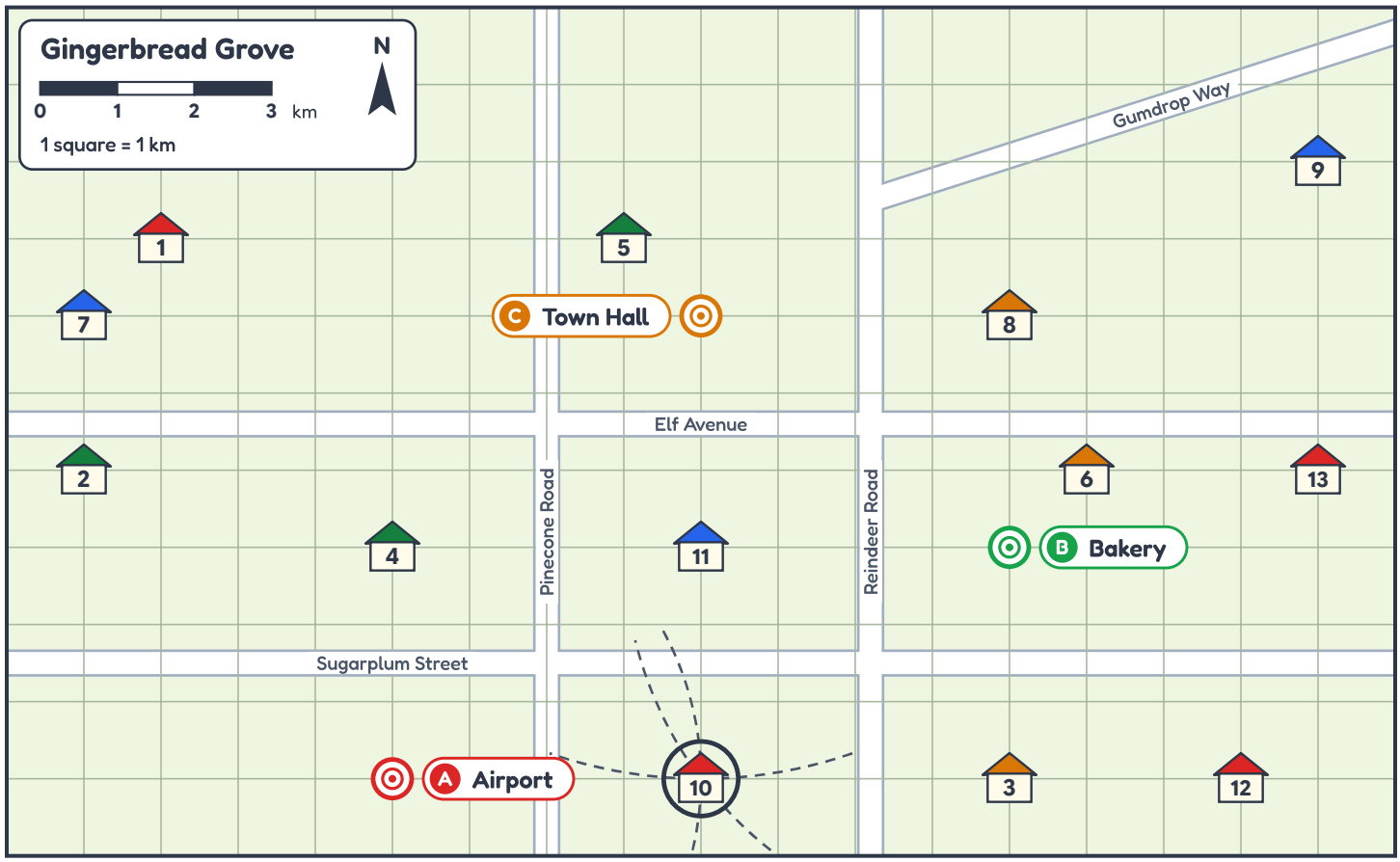
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Name _____ Date _____



Santa Radar

Every house is on a grid point. Find the stops, then measure.

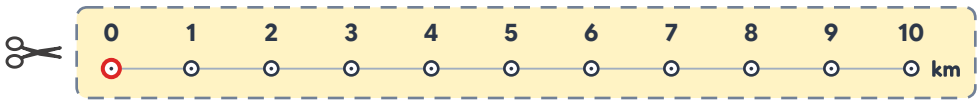


Time	A Airport	B Bakery	C Town Hall	House
10:20 p.m.	4 km	5 km	6 km	10 Example
10:30 p.m.	3 km	8 km	5 km	
10:40 p.m.	5 km	4 km	3 km	
10:55 p.m.	10 km	3 km	4 km	

Then join the houses in time order to draw Santa's path.

How far did Santa's sleigh fly from each stop to the next? Measure with the radar strip.

10:20 to **10:30** ____ km **10:30** to **10:40** ____ km **10:40** to **10:55** ____ km In all ____ km



Radar strip: cut it out, or use a compass opened to that many squares.

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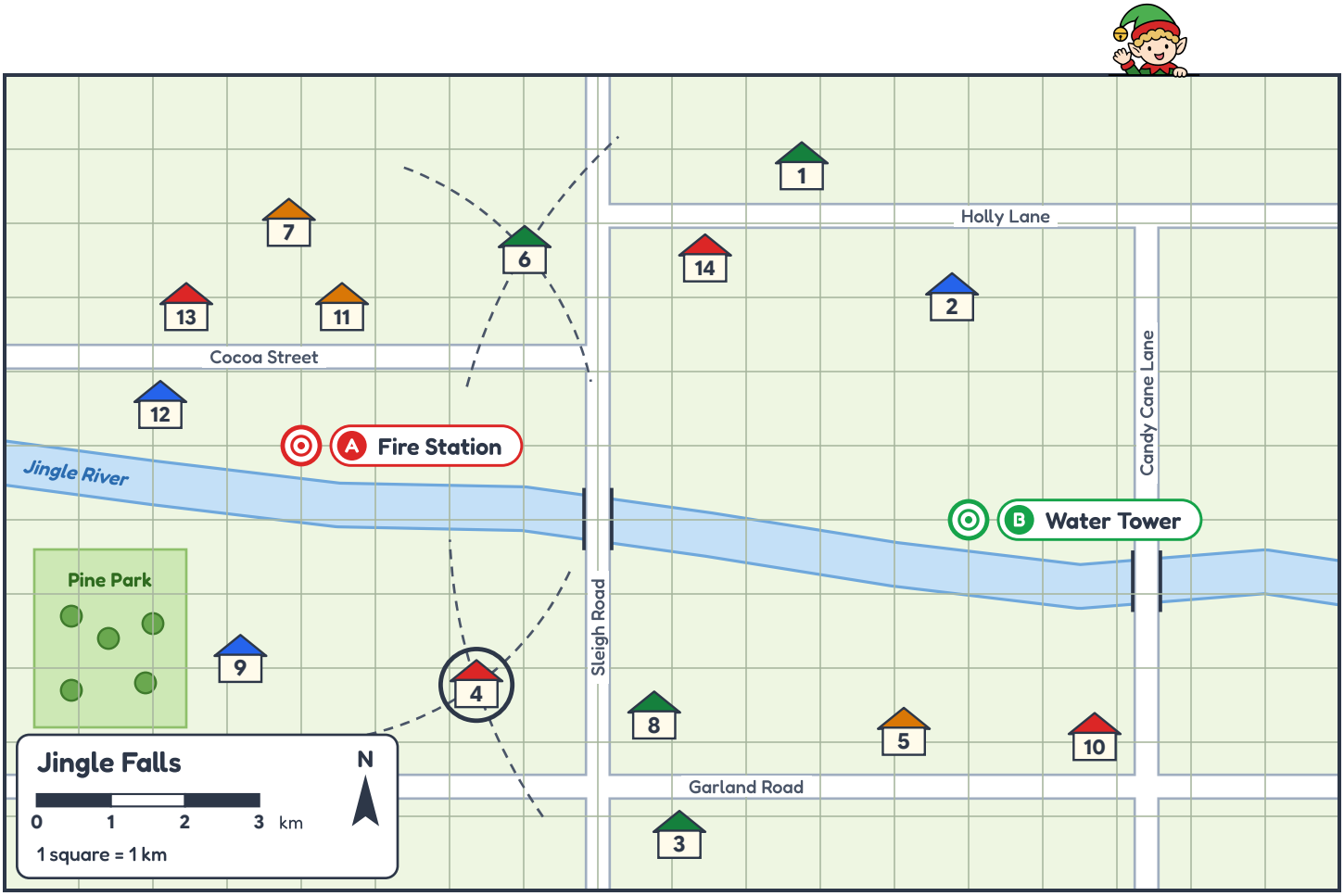
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Name _____ Date _____



Santa Radar

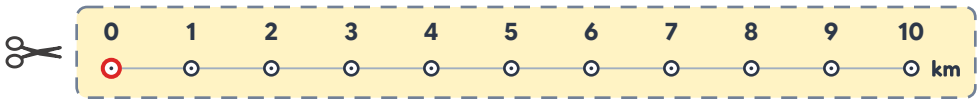
Two circles cross twice. Use the clue to pick the house.



Time	A Fire Station	B Water Tower	Clue	House
11:00 p.m.	4 km	7 km	south of the river	4 Example
11:10 p.m.	3 km	10 km	next to Pine Park	
11:20 p.m.	6 km	5 km	on Holly Lane	
11:35 p.m.	9 km	3 km	north of the river	

Then join the houses in time order to draw Santa's path.

At **11:10** the two circles crossed at two houses. Which house did the clue rule out? _____



Cut out the radar strip, or use a compass.

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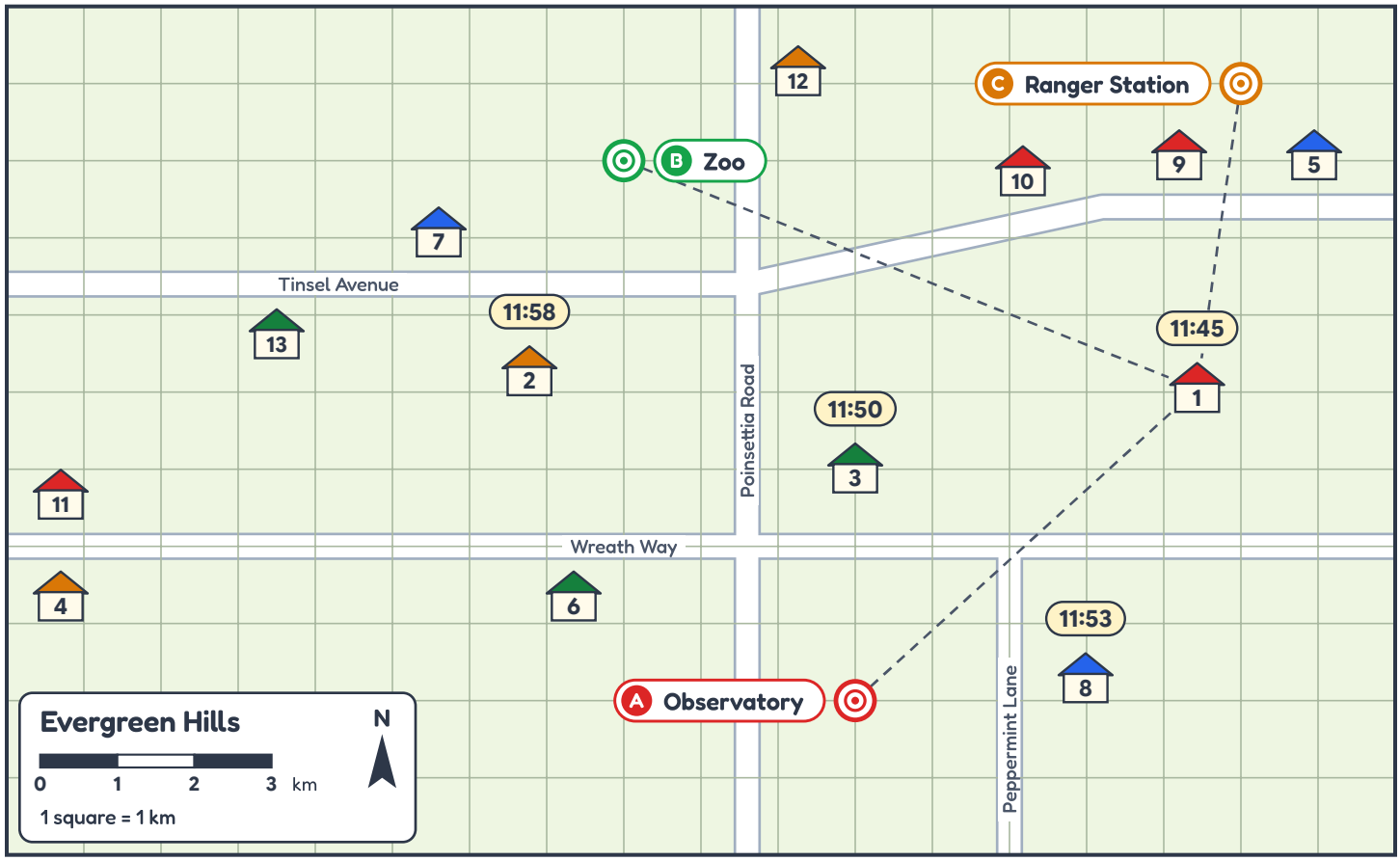
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Name _____ Date _____



Santa Radar

Be the radar: measure how far each stop is from each lookout.

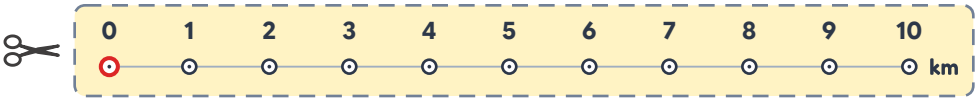


Time	Stop	A Observatory	B Zoo	C Ranger Station
11:45 p.m.	House 1 Example	6 km	8 km	4 km
11:50 p.m.	House 3	____ km	____ km	____ km
11:53 p.m.	House 8	____ km	____ km	____ km
11:58 p.m.	House 2	____ km	____ km	____ km

Then join the stops in time order to draw Santa's path.

Which lookout was closest to Santa's sleigh at **11:58** p.m.?

Observatory **Zoo** **Ranger Station**





Radar strip: hole **0** on the lookout, then turn the strip until its line runs through the house.

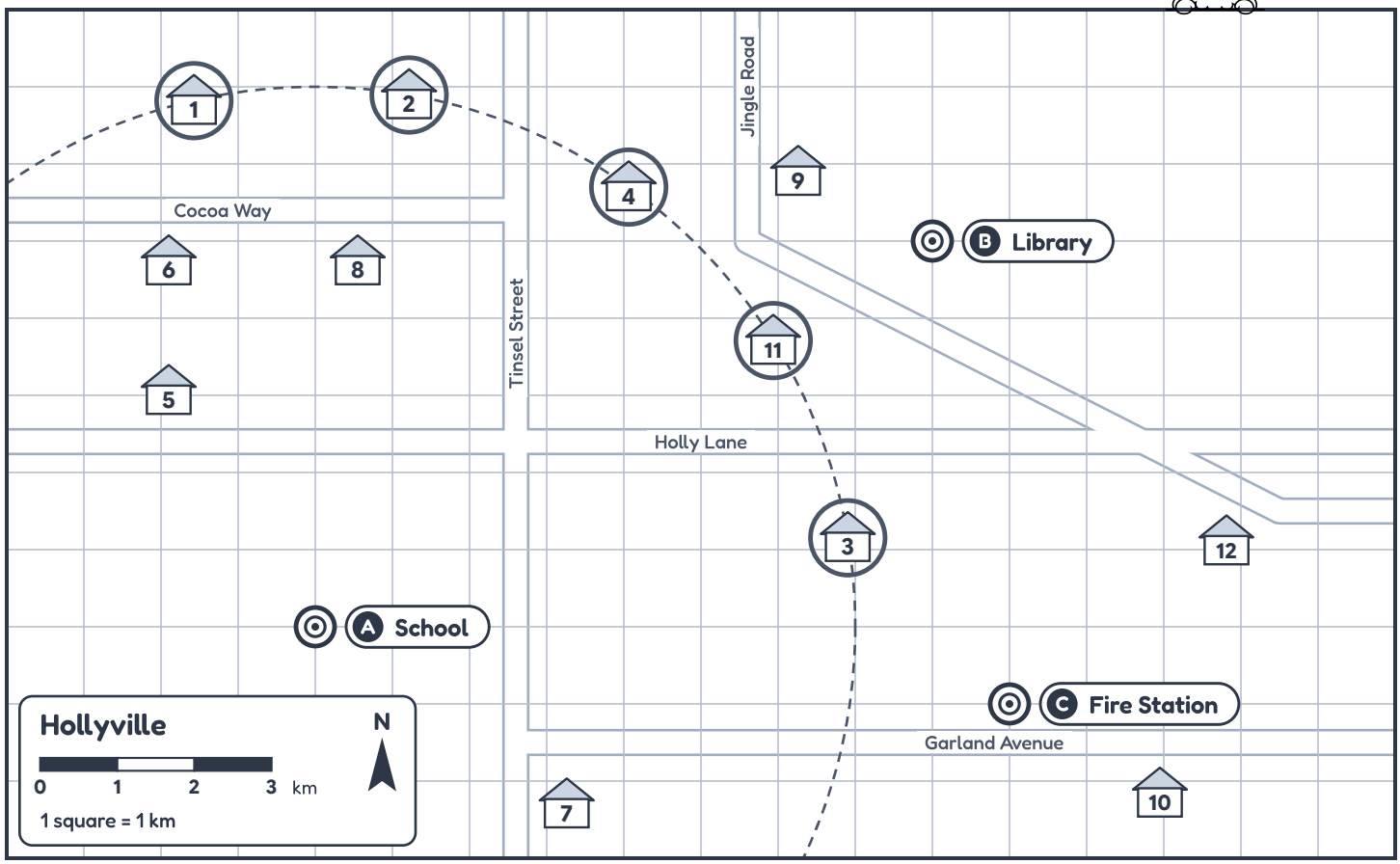
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Name _____ Date _____



Santa Radar

How radar finds Santa's sleigh: one distance at a time.



Step 1 Example

At **7:00** p.m. Santa's sleigh was **7** km from the School (A). Every house **7** km away is on this circle.

Houses **1, 2, 3, 4, 11**

Step 2

It was **4** km from the Library (B). Draw that circle. Which two houses are on both circles?

Houses _____ and _____

Step 3

It was **3** km from the Fire Station (C). Draw that circle. Which house is on all three circles?

House _____

One distance gives a circle. Two give two points. Three give one house!



Cut out the radar strip. Hold a pencil in hole **0** on the lookout and a second in the hole for the distance. Turn.

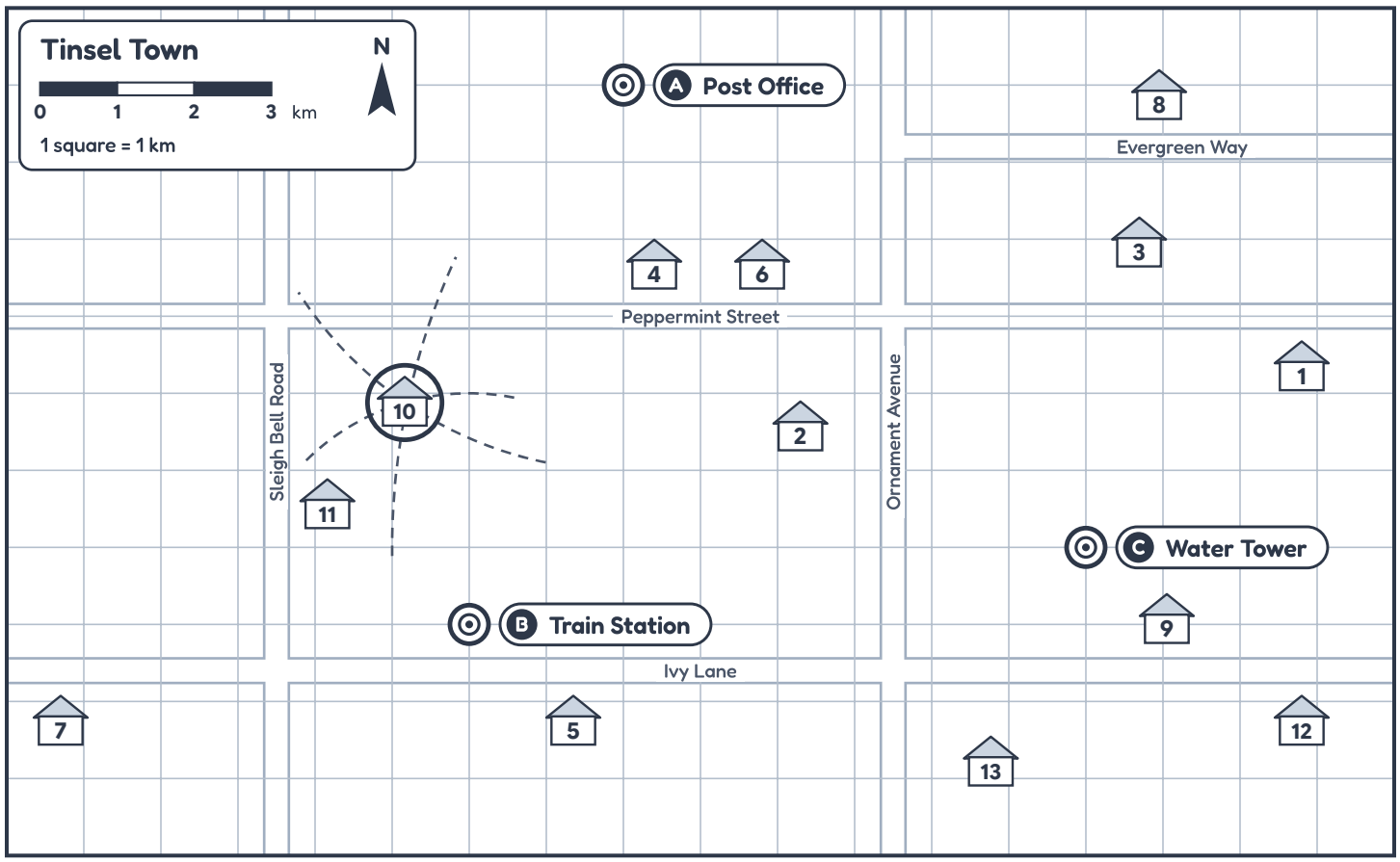
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Name _____ Date _____



Santa Radar

Draw the circles, find each house, then draw the path.



Time	A Post Office	B Train Station	C Water Tower	House
8:00 p.m.	5 km	3 km	9 km	10 Example
8:15 p.m.	5 km	5 km	4 km	
8:35 p.m.	10 km	7 km	3 km	
8:50 p.m.	7 km	10 km	4 km	

Then join the houses in time order to draw Santa's path.

Which way did Santa's sleigh fly from its **8:00** stop to its **8:15** stop?

north **east** **south** **west**





Radar strip: cut it out, or use a compass opened to that many squares.

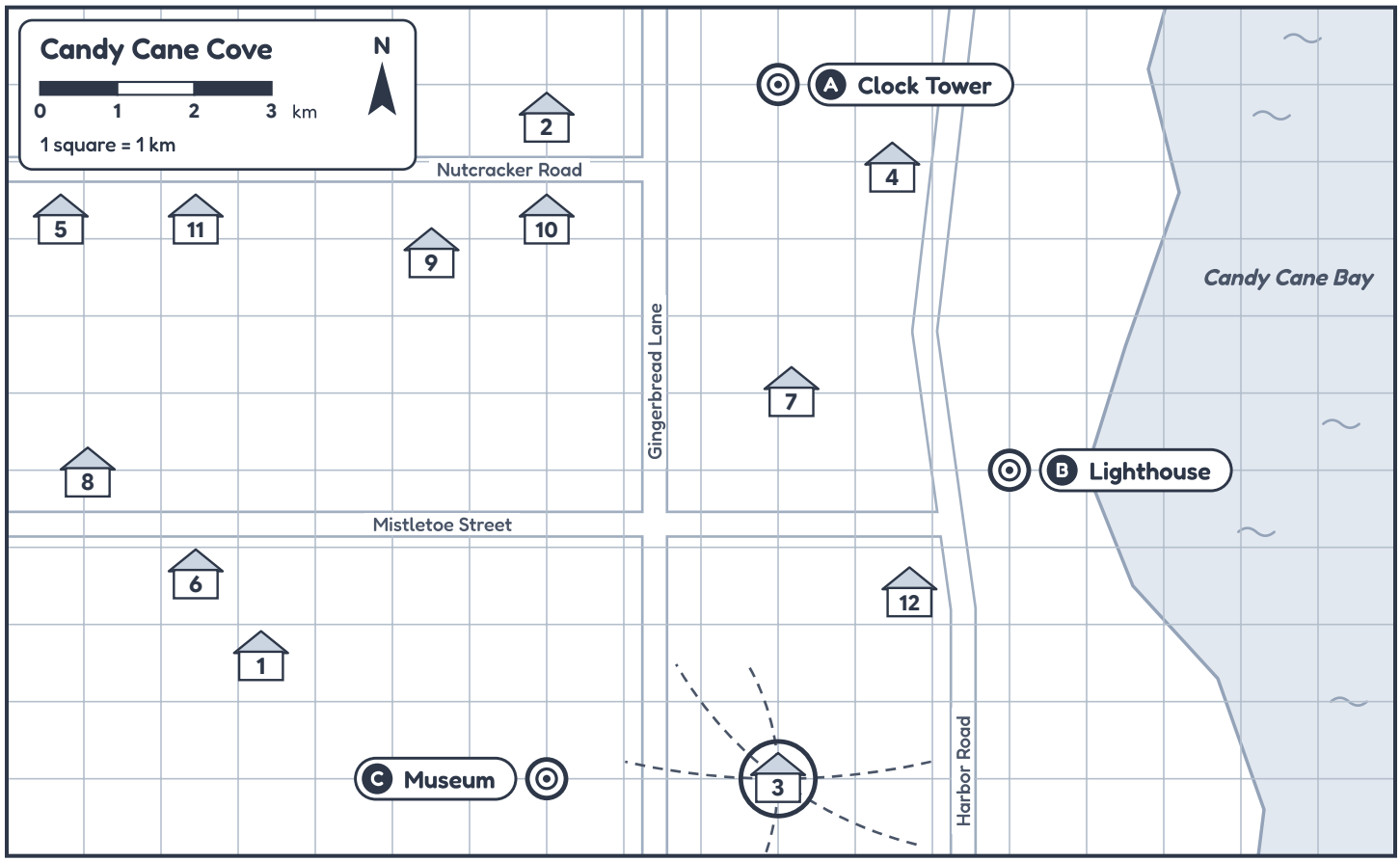
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Name _____ Date _____



Santa Radar

Draw the circles, find each house, then draw the path.



Time	A Clock Tower	B Lighthouse	C Museum	House
9:05 p.m.	9 km	5 km	3 km	3 (Example)
9:20 p.m.	4 km	3 km	6 km	
9:40 p.m.	5 km	8 km	7 km	
10:10 p.m.	10 km	10 km	4 km	

Then join the houses in time order to draw Santa's path.

How long was it from the **9:05** sighting to the **10:10** sighting?

_____ hour _____ minutes or _____ minutes





Radar strip: cut it out, or use a compass opened to that many squares.

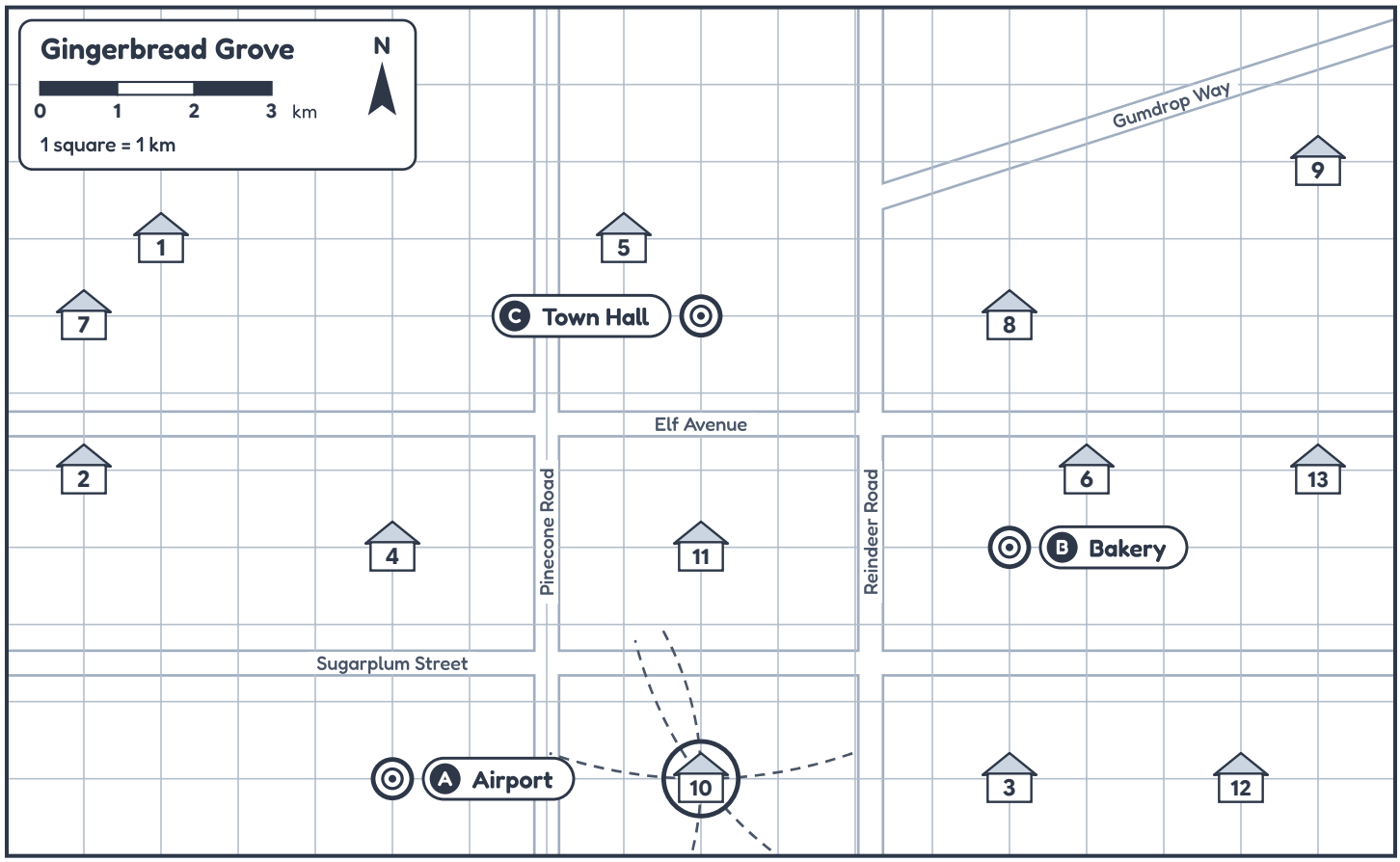
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Name _____ Date _____



Santa Radar

Every house is on a grid point. Find the stops, then measure.



Time	A Airport	B Bakery	C Town Hall	House
10:20 p.m.	4 km	5 km	6 km	10 Example
10:30 p.m.	3 km	8 km	5 km	
10:40 p.m.	5 km	4 km	3 km	
10:55 p.m.	10 km	3 km	4 km	

Then join the houses in time order to draw Santa's path.

How far did Santa's sleigh fly from each stop to the next? Measure with the radar strip.

10:20 to **10:30** ____ km **10:30** to **10:40** ____ km **10:40** to **10:55** ____ km In all ____ km



Radar strip: cut it out, or use a compass opened to that many squares.

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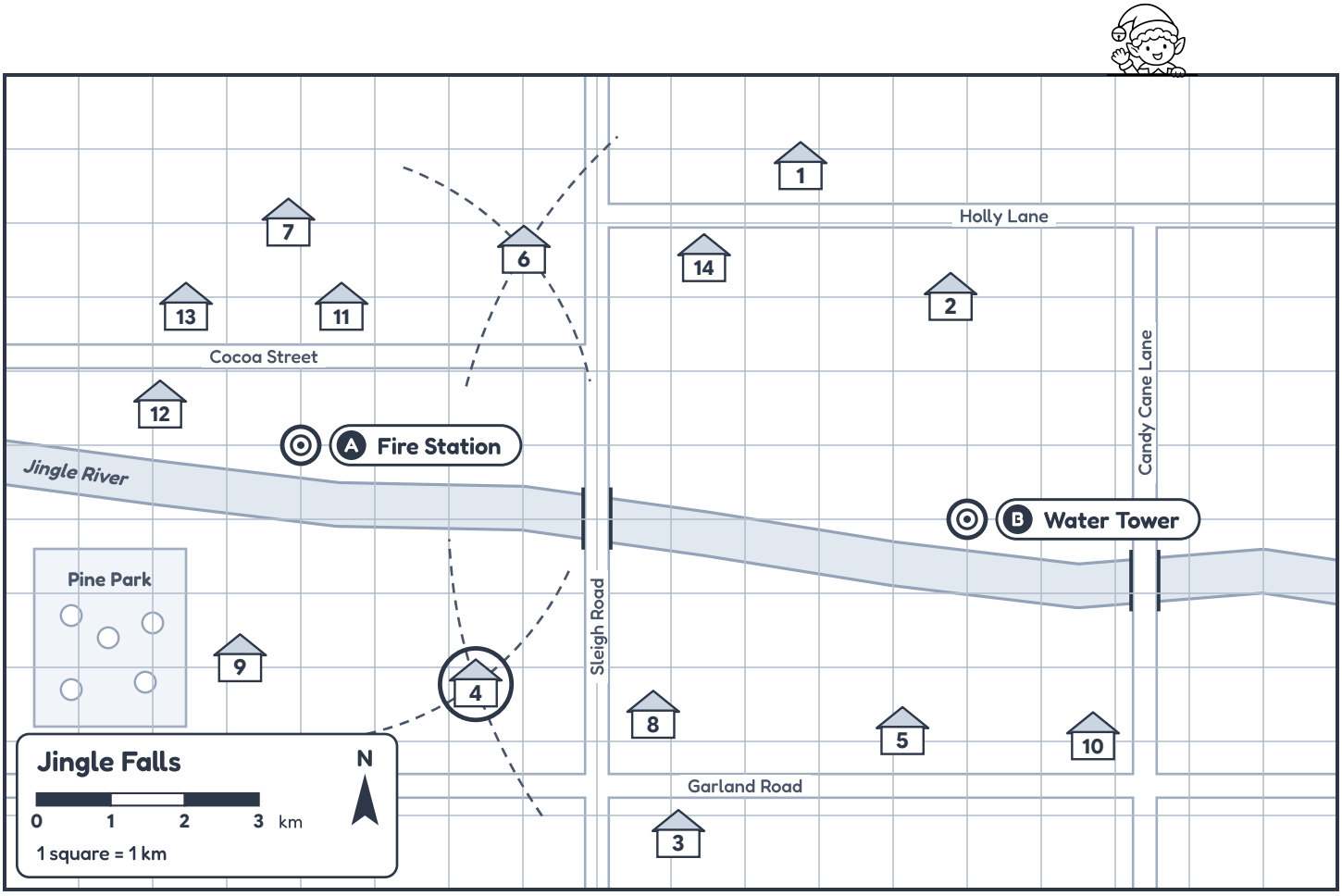
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Name _____ Date _____



Santa Radar

Two circles cross twice. Use the clue to pick the house.



Time	A Fire Station	B Water Tower	Clue	House
11:00 p.m.	4 km	7 km	south of the river	4 Example
11:10 p.m.	3 km	10 km	next to Pine Park	
11:20 p.m.	6 km	5 km	on Holly Lane	
11:35 p.m.	9 km	3 km	north of the river	

Then join the houses in time order to draw Santa's path.

At 11:10 the two circles crossed at two houses. Which house did the clue rule out? _____



Cut out the radar strip, or use a compass.

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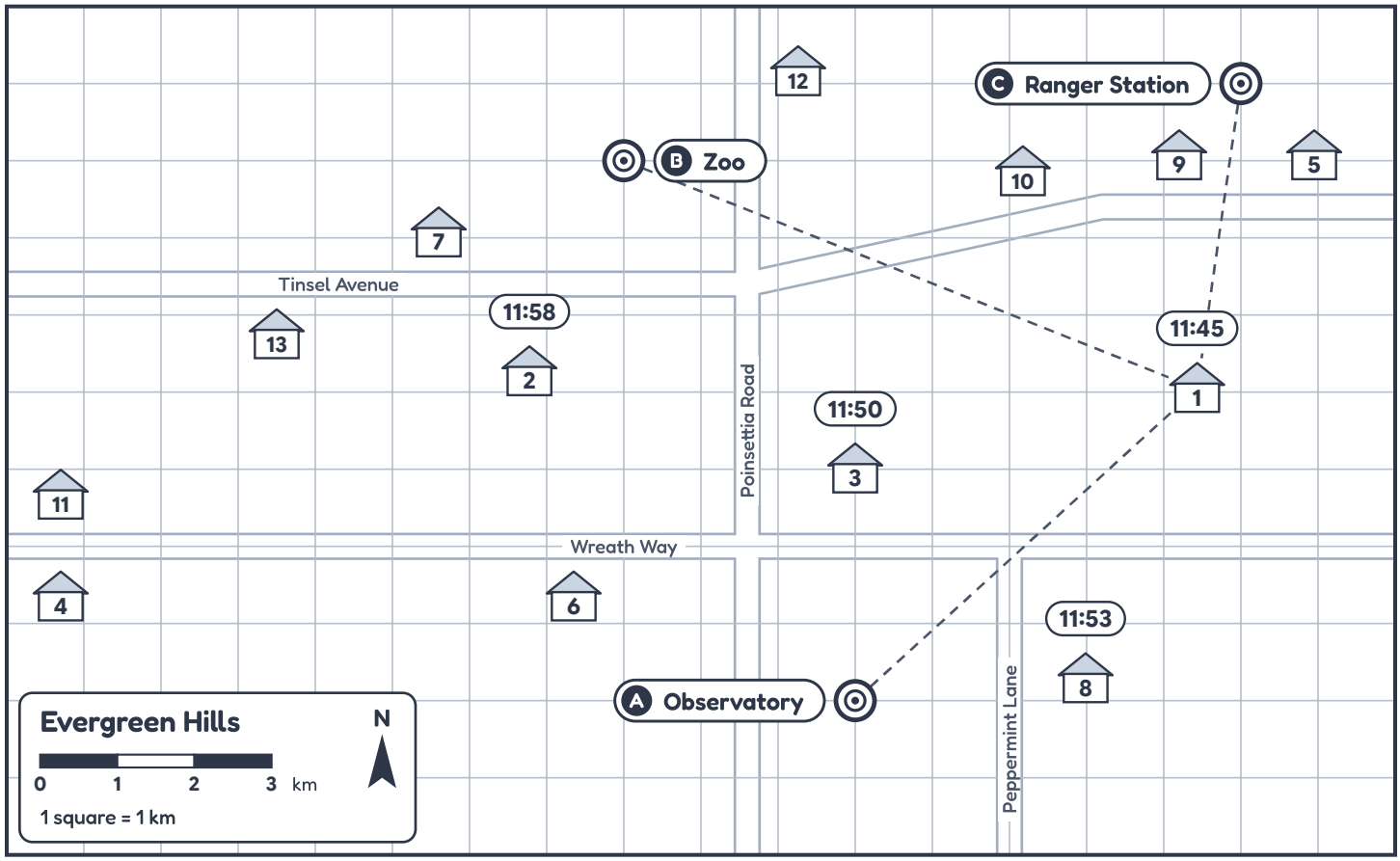
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Name _____ Date _____



Santa Radar

Be the radar: measure how far each stop is from each lookout.



Time	Stop	A Observatory	B Zoo	C Ranger Station
11:45 p.m.	House **1** Example	**6** km	**8** km	**4** km
11:50 p.m.	House **3**	____ km	____ km	____ km
11:53 p.m.	House **8**	____ km	____ km	____ km
11:58 p.m.	House **2**	____ km	____ km	____ km

Then join the stops in time order to draw Santa's path.

Which lookout was closest to Santa's sleigh at **11:58** p.m.?

Observatory **Zoo** **Ranger Station**





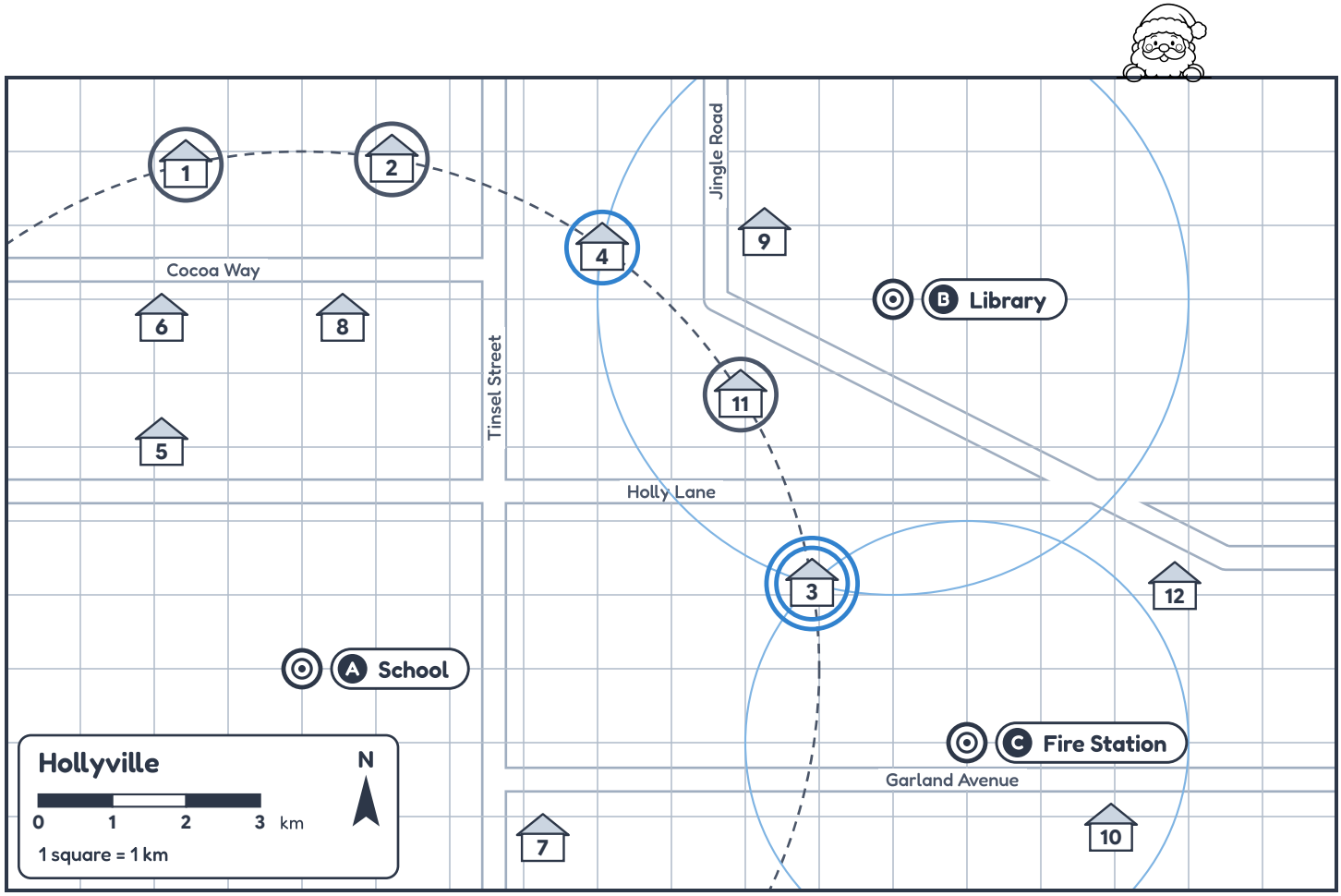
Radar strip: hole **0** on the lookout, then turn the strip until its line runs through the house.

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Santa Radar

How radar finds Santa's sleigh: one distance at a time.



Step 1 Example

At **7:00** p.m. Santa's sleigh was **7** km from the School (A). Every house **7** km away is on this circle.

Houses **1, 2, 3, 4, 11**

Step 2

It was **4** km from the Library (B). Draw that circle. Which two houses are on both circles?

Houses 3 and 4

Step 3

It was **3** km from the Fire Station (C). Draw that circle. Which house is on all three circles?

House 3

One distance gives a circle. Two give two points. Three give one house!



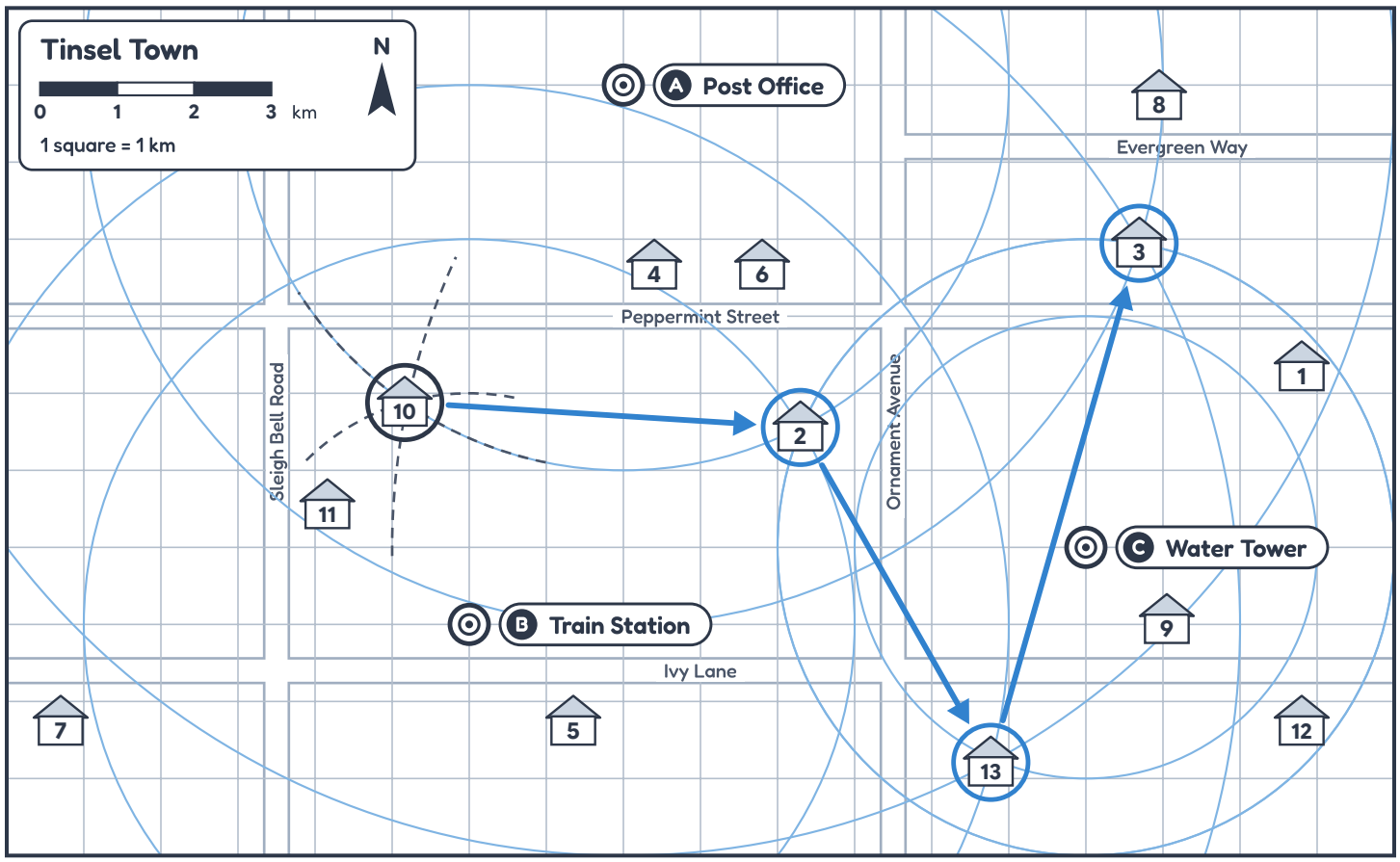
Cut out the radar strip. Hold a pencil in hole **0** on the lookout and a second in the hole for the distance. Turn.

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Santa Radar

Draw the circles, find each house, then draw the path.



Time	A Post Office	B Train Station	C Water Tower	House
8:00 p.m.	5 km	3 km	9 km	10 (Example)
8:15 p.m.	5 km	5 km	4 km	2
8:35 p.m.	10 km	7 km	3 km	13
8:50 p.m.	7 km	10 km	4 km	3

Then join the houses in time order to draw Santa's path.

Which way did Santa's sleigh fly from its **8:00** stop to its **8:15** stop?

north **east** south west





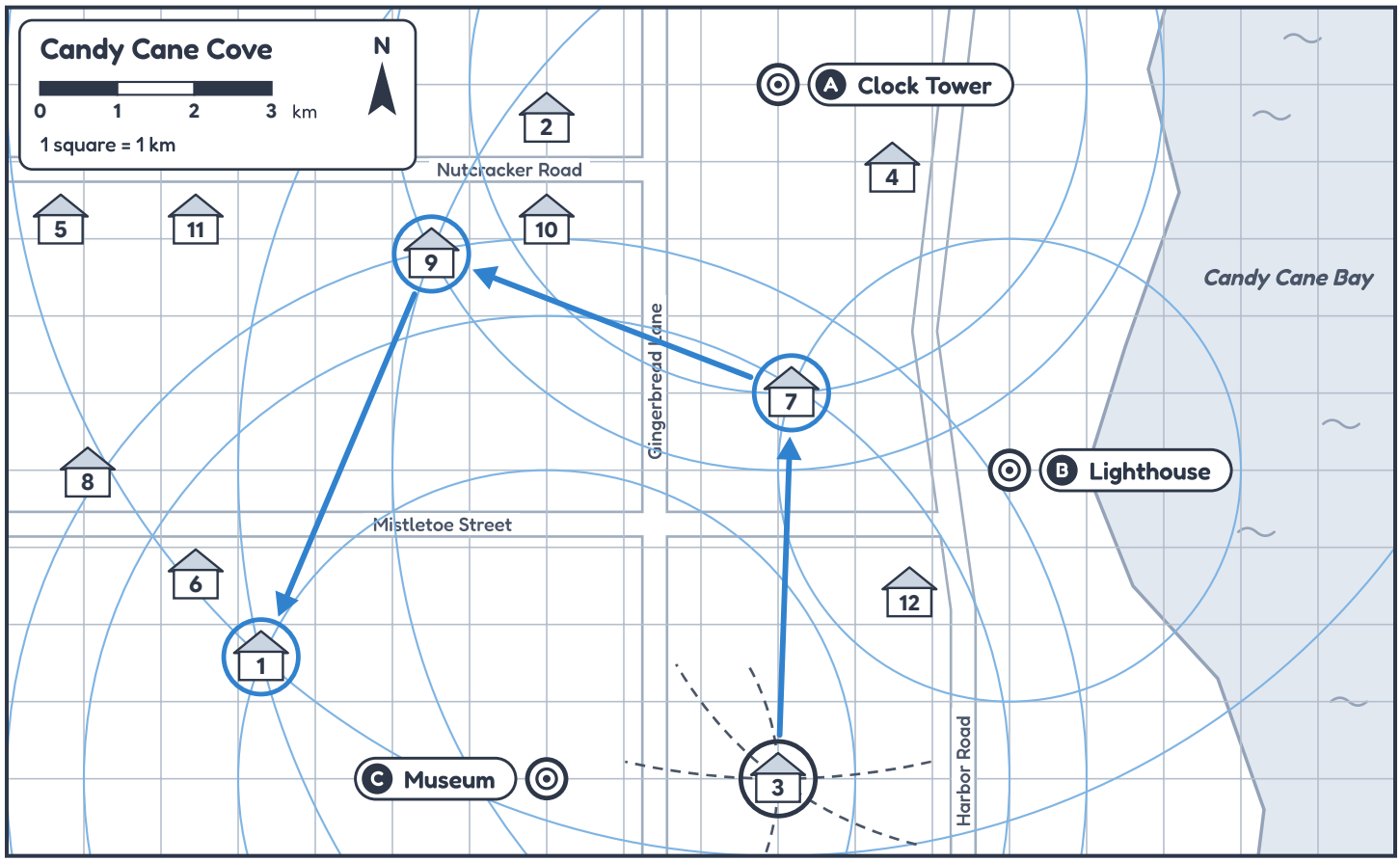
Radar strip: cut it out, or use a compass opened to that many squares.

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Santa Radar

Draw the circles, find each house, then draw the path.



Time	A Clock Tower	B Lighthouse	C Museum	House
9:05 p.m.	9 km	5 km	3 km	3 (Example)
9:20 p.m.	4 km	3 km	6 km	7
9:40 p.m.	5 km	8 km	7 km	9
10:10 p.m.	10 km	10 km	4 km	1

Then join the houses in time order to draw Santa's path.

How long was it from the **9:05** sighting to the **10:10** sighting?

1 hour **5** minutes or **65** minutes





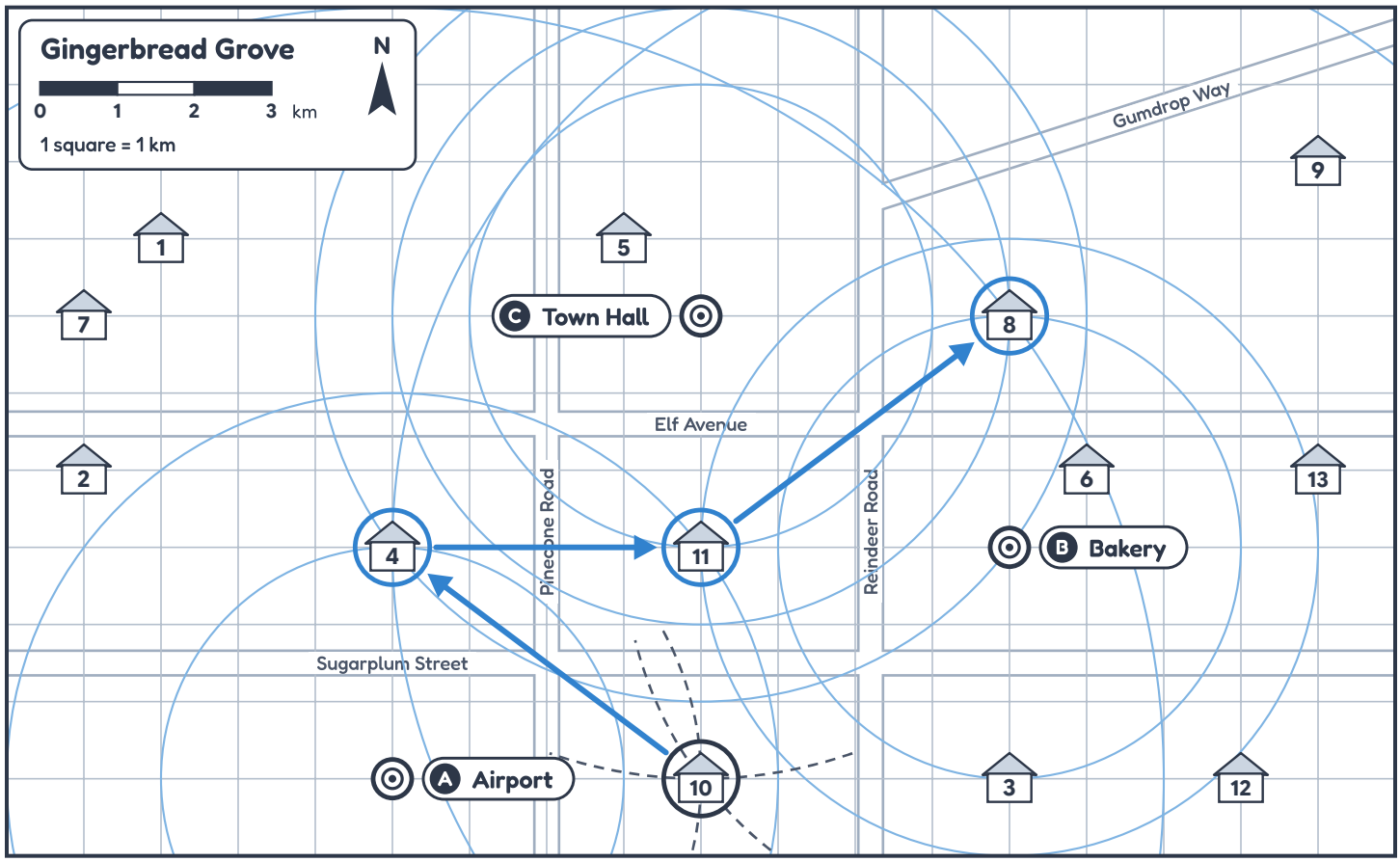
Radar strip: cut it out, or use a compass opened to that many squares.

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Santa Radar

Every house is on a grid point. Find the stops, then measure.



Time	A Airport	B Bakery	C Town Hall	House
10:20 p.m.	4 km	5 km	6 km	10 (Example)
10:30 p.m.	3 km	8 km	5 km	4
10:40 p.m.	5 km	4 km	3 km	11
10:55 p.m.	10 km	3 km	4 km	8

Then join the houses in time order to draw Santa's path.

How far did Santa's sleigh fly from each stop to the next? Measure with the radar strip.

10:20 to 10:30 **5** km 10:30 to 10:40 **4** km 10:40 to 10:55 **5** km In all **14** km



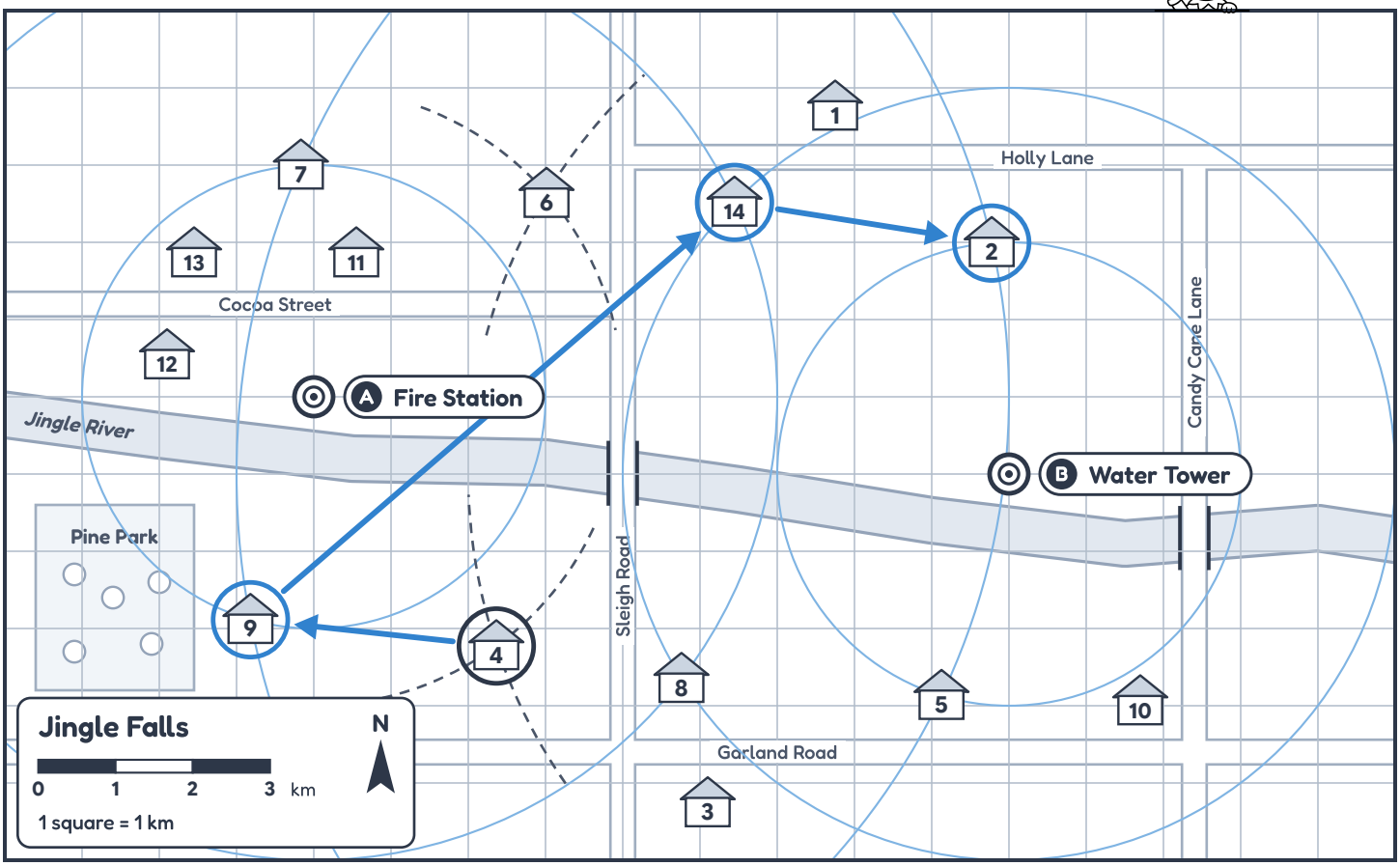
Radar strip: cut it out, or use a compass opened to that many squares.

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Santa Radar

Two circles cross twice. Use the clue to pick the house.



Time	A Fire Station	B Water Tower	Clue	House
11:00 p.m.	4 km	7 km	south of the river	4 Example
11:10 p.m.	3 km	10 km	next to Pine Park	9
11:20 p.m.	6 km	5 km	on Holly Lane	14
11:35 p.m.	9 km	3 km	north of the river	2

Then join the houses in time order to draw Santa's path.

At **11:10** the two circles crossed at two houses. Which house did the clue rule out? 7



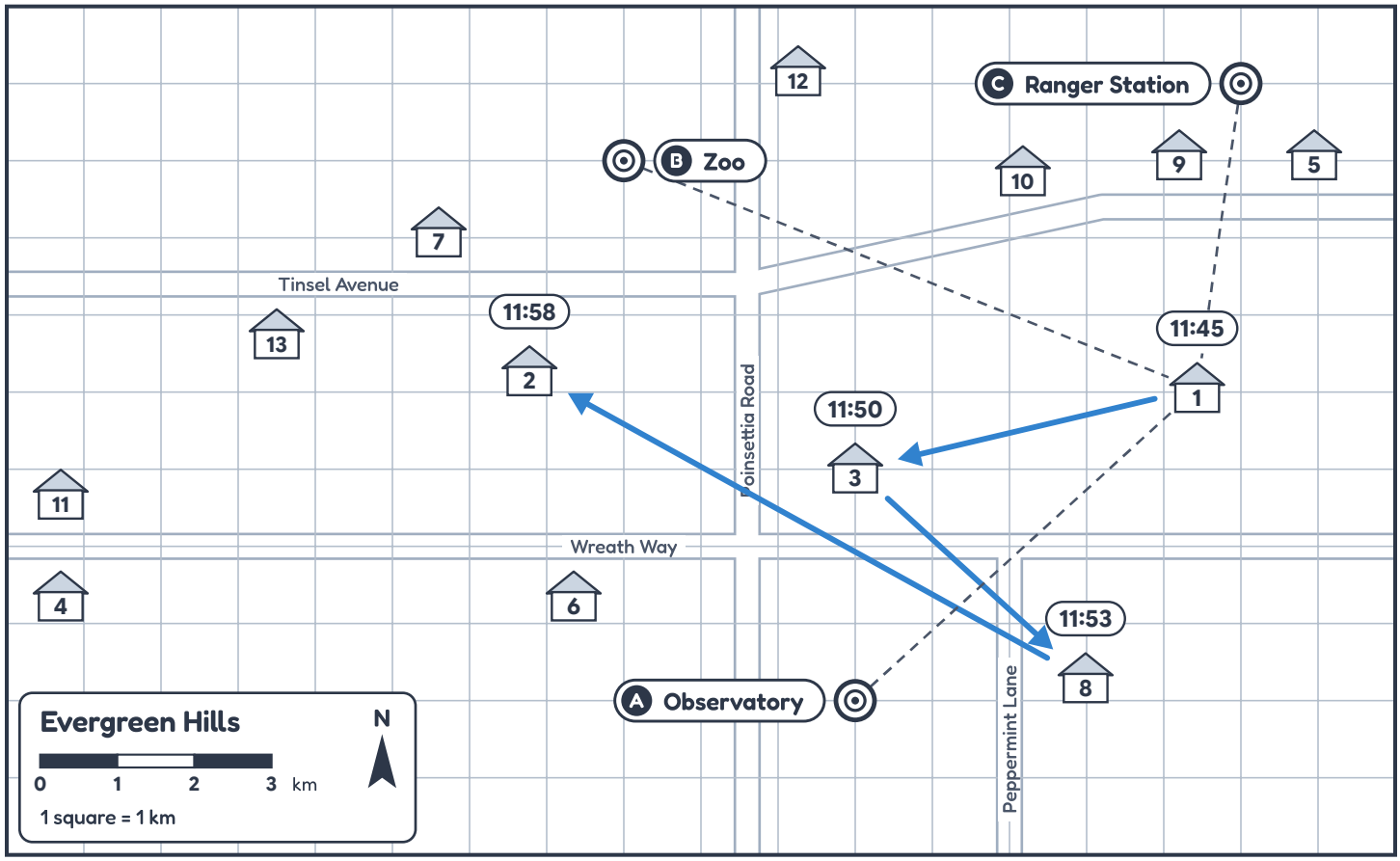
Cut out the radar strip, or use a compass.

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Santa Radar

Be the radar: measure how far each stop is from each lookout.



Time	Stop	A Observatory	B Zoo	C Ranger Station
11:45 p.m.	House 1 (Example)	6 km	8 km	4 km
11:50 p.m.	House 3	3 km	5 km	7 km
11:53 p.m.	House 8	3 km	9 km	8 km
11:58 p.m.	House 2	6 km	3 km	10 km

Then join the stops in time order to draw Santa's path.

Which lookout was closest to Santa's sleigh at **11:58** p.m.?

Observatory **Zoo** Ranger Station





Radar strip: hole **0** on the lookout, then turn the strip until its line runs through the house.

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