



Holiday Problems

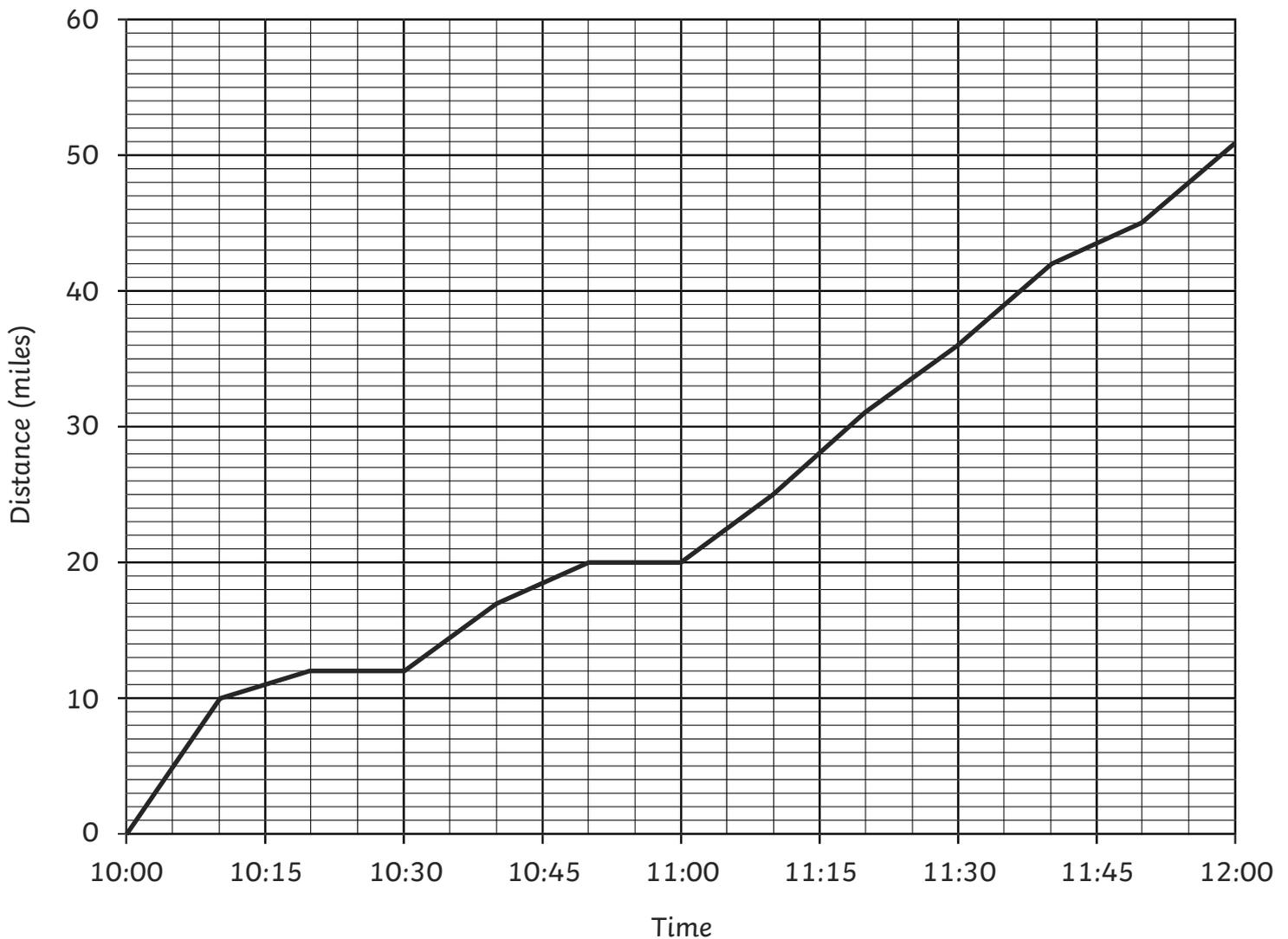
I can use line graphs to solve problems.



The Kellets and the Mistrys are on holiday. Use the line graph about their holiday activities to solve the problems.

The Mistrys go on a boat ride along the coast to look at the cliffs, explore the caves and see seals. The boat goes out exploring, then comes back. This graph shows the time of the journey and the distance they travelled.

A Line Graph to Show a Boat Ride along the Cornish Coast





1. How long did the boat ride last in total?

2. The boat travels the same distance out and back. Approximately how far away from the harbour was it when it turned back?

3. The boat stops twice, first to allow the passengers to photograph the caves, then to look at the seals. At approximately what time does the boat stop first?

4. What time do they finish watching the seals?

5. What is the distance between the caves and the seal colony?

6. Why do you think the boat does not stop at all in the final 25 miles?



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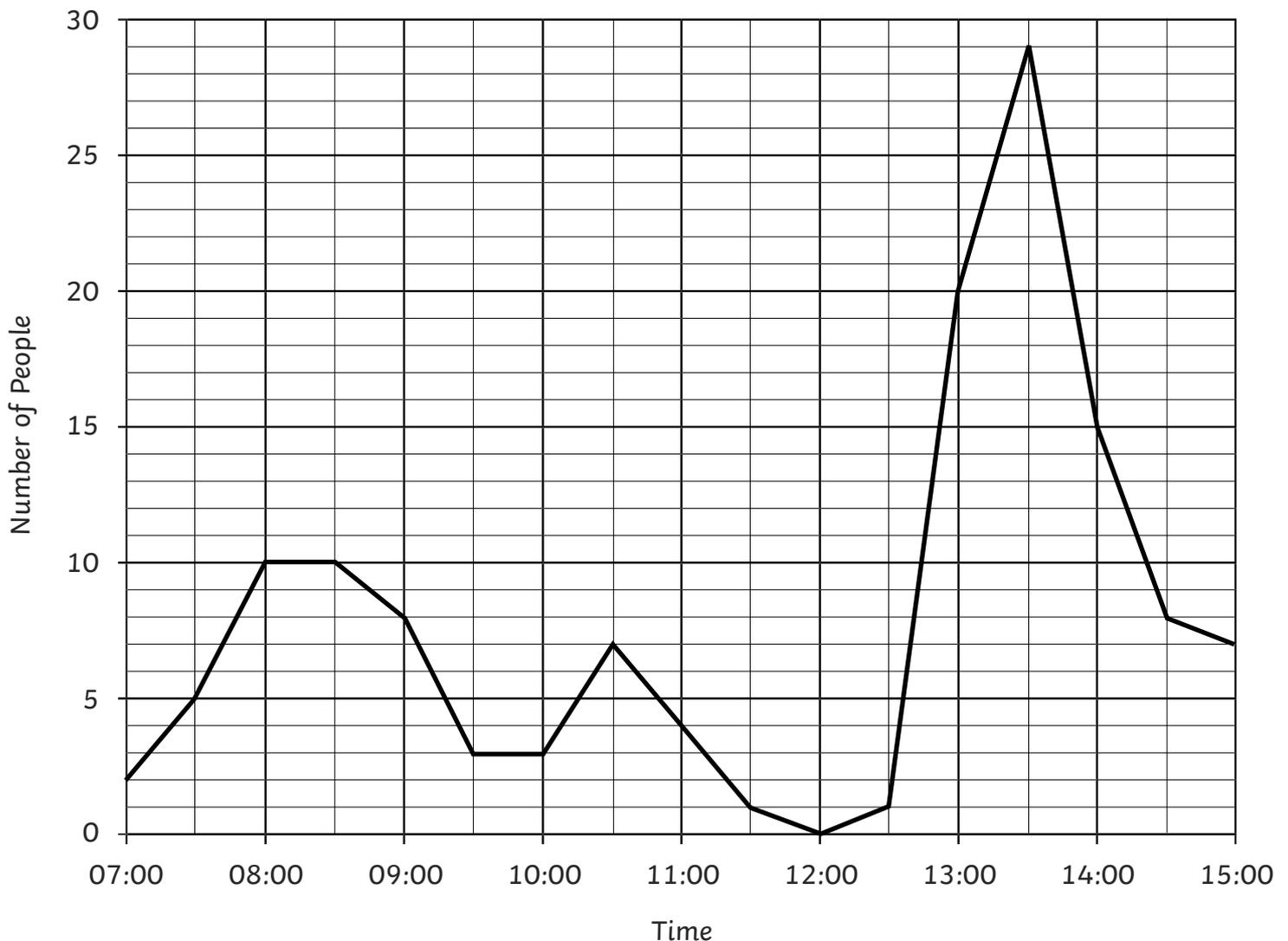
I can use line graphs to solve problems.



The Kellets and the Mistrys are on holiday. Use the line graph about their holiday activities to solve the problems.

Ash and George both use the swimming pool. They get in at different times: Ash joins in the morning lane swim at 8 a.m., while George does the afternoon inflatables play session at 1 p.m. This graph shows the number of people in the pool at different times.

A Line Graph to Show the Number of People in a Swimming Pool during a Day





1. What is the difference between the highest number of people in the pool during the morning lane session and the highest number of people during the afternoon inflatable play session?

2. When were there twice as many people in the pool as were there at 08:30?

3. What reason could explain why there was no one in the pool at 12:00?

4. What time do you think the inflatable play session ends? Explain your reasoning.

5. At approximately which times were there only 5 people in the pool?



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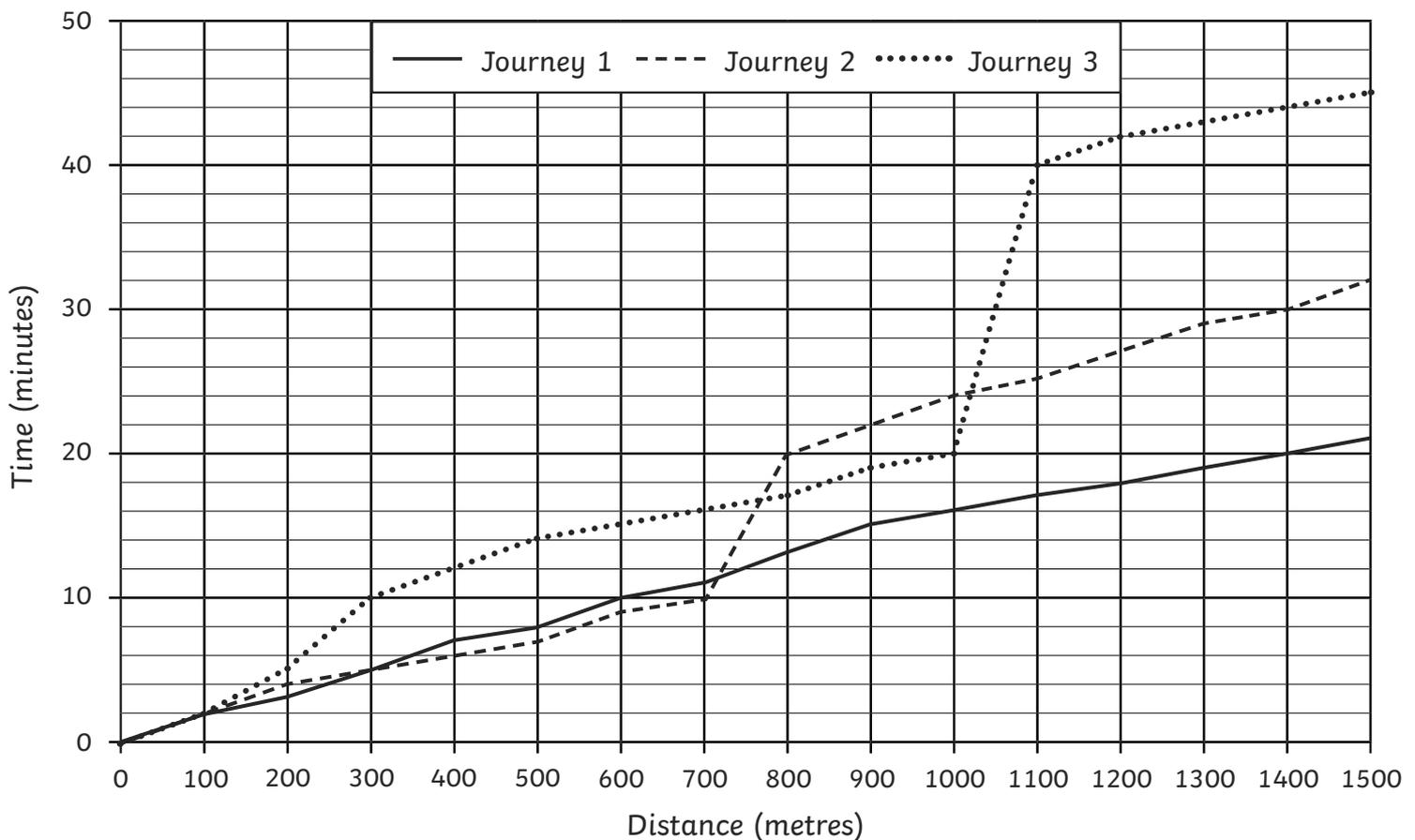
I can use line graphs to solve problems.



The Kellets and the Mistrys are on holiday. Use the line graph about their holiday activities to solve the problems.

While on holiday, the families find a favourite local restaurant. They visit this restaurant three times over their holiday. This graph shows the three journeys they took.

A Line Graph to Show the Three Journeys Made to the Restaurant





1. Describe the similarities and the differences between the three journeys.

2. Which was the quickest journey?

3. On one of the journeys, George realised he had forgotten to lock the door of their apartment, so they had to go back. Which journey do you think this was? Explain your reasoning.

4. On journey 2, the two families take 10 minutes to travel from 700m to 800m. Can you think of a reason for this?

5. On one of the journeys, the families discovered a bar on the way to the restaurant and had some drinks before carrying on. Which journey was this? Around how long did they stay at the bar? Explain your reasoning.



Holiday Problems **Answers**

1. How long did the boat ride last in total?

2 hours

2. The boat travels the same distance out and back. Approximately how far away from the harbour was it when it turned back?

25 miles

3. The boat stops twice, first to allow the passengers to photograph the caves, then to look at the seals. At approximately what time does the boat stop first?

10:20

4. What time do they finish watching the seals?

11:00

5. What is the distance between the caves and the seal colony?

8 miles

6. Why do you think the boat does not stop at all in the final 25 miles?

The crew are on their way back and they have already explored the caves and seen the seals.



Holiday Problems **Answers**

1. What is the difference between the highest number of people in the pool during the morning lane session and the highest number of people during the afternoon inflatable play session?

There were 19 more people in the afternoon session.

2. When were there twice as many people in the pool as were there at 08:30?

13:00 and 13:50

3. What reason could explain why there was no one in the pool at 12:00?

People might be eating lunch at 12:00.

4. What time do you think the inflatable play session ends? Explain your reasoning.

13:30, because the number of people in the pool drops from 29 to 15 straight after this time.

5. At approximately which times were there only 5 people in the pool?

07:30, 09:15, 10:15, 10:50 and 12:40



Holiday Problems Answers

1. Describe the similarities and the differences between the three journeys.

All the journeys are the same distance: 1500m. The three journeys take different times. Journeys 2 and 3 both show times when they have slowed down or stopped.

2. Which was the quickest journey?

Journey 1 was the quickest, as they got to the restaurant in just over 20 minutes. This compares to journey 2 which took 32 minutes and journey 3 which took approximately 45 minutes.

3. On one of the journeys, George realised he had forgotten to lock the door of their apartment, so they had to go back. Which journey do you think this was? Explain your reasoning.

Journey 3, as they were much slower covering the first 300m of the journey.

4. On journey 2, the two families take 10 minutes to travel from 700m to 800m. Can you think of a reason for this?

They could have slowed down to take photos or to look at the view. One of the family members could have hurt themselves or dropped something and had to look for it.

5. On one of the journeys, the families discovered a bar on the way to the restaurant and had some drinks before carrying on. Which journey was this? Around how long did they stay at the bar? Explain your reasoning.

Journey 3, because it took them 20 minutes to travel from 1000m to 1100m. They must have stopped for about 15 to 20 minutes.