Focus on London maths quiz

Level 2

You are planning a trip to London for yourself and four mates. You are going to see the car show.

Below is a train timetable for the three days you will be in London for the show.

| Outward Journey: Thursday 1 April 2004 | | | | Return | | |
Station	Arrive	Depart	Operator	Standard	First Class	Apex Price
LEICESTER		06:00	MIDLAND MAIN LINE	£ 74.00	£102.00	£23.00
LONDON ST PANCRAS	07:31					
LEICESTER		06:30	MIDLAND MAIN LINE	£ 74.00	£102.00	£23.00
LONDON ST PANCRAS	07:53					
LEICESTER		06:34	MIDLAND MAIN LINE	£ 74.00	£102.00	NA
LONDON ST PANCRAS	08:03					
LEICESTER		07:00	MIDLAND MAIN LINE	£ 74.00	£102.00	NA
LONDON ST PANCRAS	08:26					
Return Journey: Saturday 3 April 2004				Return		
Station	Arrive	Depart	Operator			
LONDON ST PANCRAS		15:25	MIDLAND MAIN LINE			
LEICESTER	16:37					
LONDON ST PANCRAS		15:30	MIDLAND MAIN LINE			
LEICESTER	16:59					
LONDON ST PANCRAS		15:55	MIDLAND MAIN LINE			
LEICESTER	17:07					

1 You've an early start planned as you need to get to London for 8 a.m. to meet one member of your group. You do not want to be waiting around for more than ten minutes at the station.

Which train will get you to London St Pancras before 8 a.m.?

A   06:00
B   06:30
C   06:34
D   07:31

Answer:

2 You book standard return tickets for four of your group. The fifth has an Apex return ticket.

How much does it cost you as a group?

A   £174
B   £317
C   £319
D   £321

Answer:

3 All the expenses will be added up at the end of the weekend and divided equally among you and your friends.

To the nearest pound, how much has the trip cost each person so far?

A   £64.50
B   £64
C   £63.50
D   £65

Answer:

4 Your hotel room costs £64.50 per night for a room for three people. Two people are staying in a twin room at a cost of £45.

What is the mean average cost of your hotel per person?
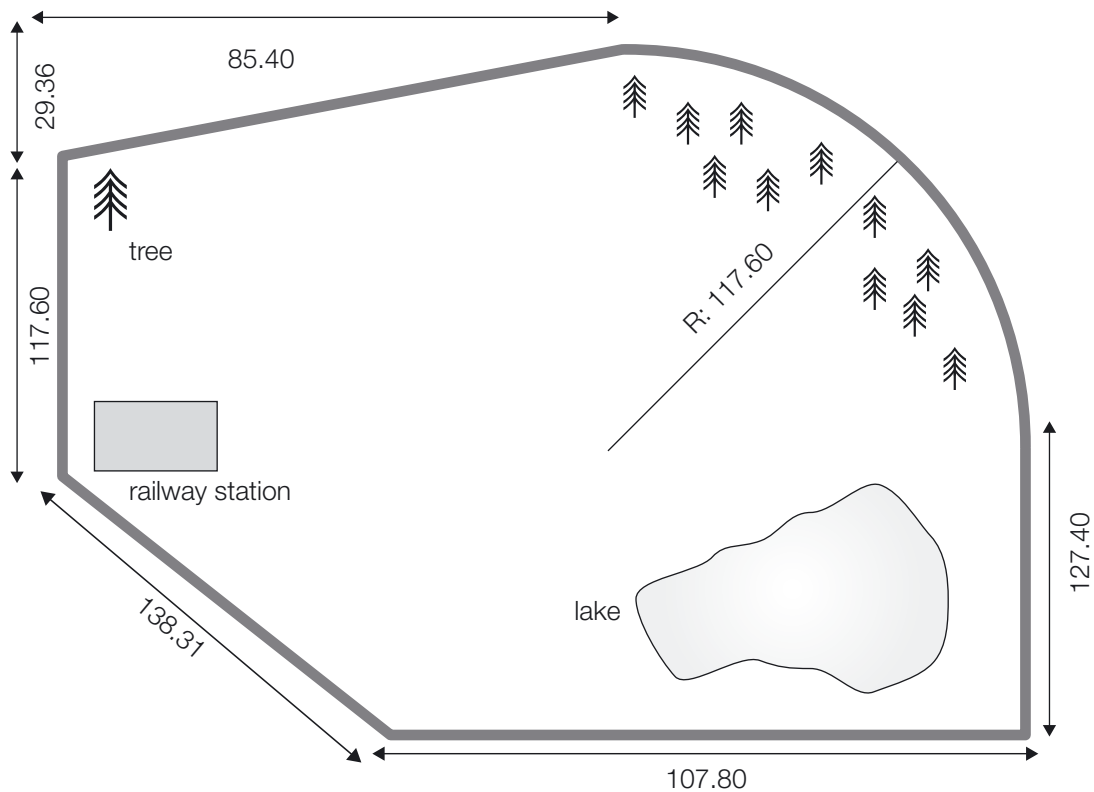
A   £21.80
B   £25
C   £22.90
D   £21.90

Answer:

5 Weekend passes for the car show are £18.50 each plus a £2 booking fee for all five tickets. You spend £6.30 in each of two taxis getting to the show. You buy food and drink at the show at a cost of £5.20 each. Along with three magazines, at £4.50 each, you buy four T-shirts costing £9.99. How much has this cost to the nearest pound?

A £285
B £160
C £185
D £183

Answer:

6 The morning after the show, you all go down to one of the London parks to watch the sprint rally. The first race is for two-wheel drive cars. The first five cars to finish then compete with the four-wheel drive cars.

The route of the race is marked below.

Which calculation would give an approximate distance for the curved part of the circuit? On the plan R = radius.
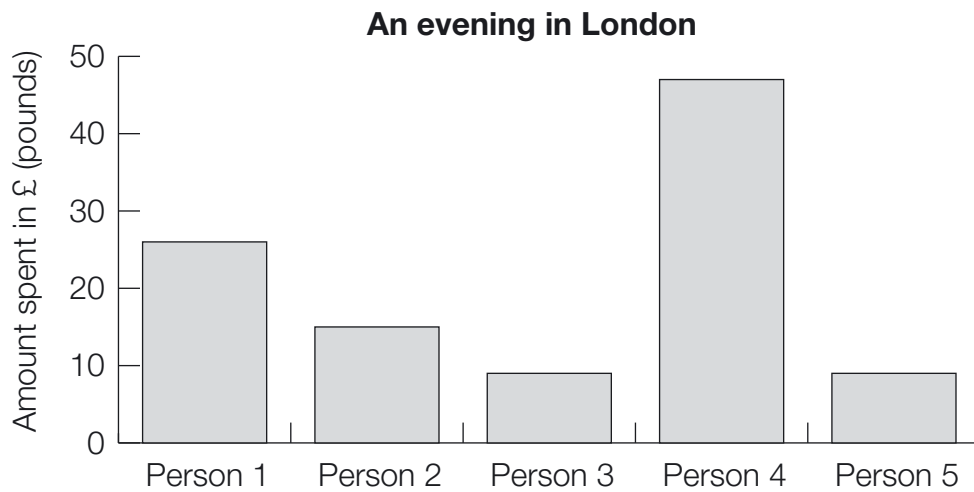
Note: circumference = 3.14 × diameter

A 3 × 230
B (3 × 115) ÷ 4
C (3 × 230) ÷ 4
D 3 × 115

Answer:

7 On the second evening, you split up to go and do various activities around London. The chart below shows the amount of money each person spent on the second evening in London.

An evening in London

What is the range in the spending?

A £48
B £38
C £35
D £55

Answer:

8 The nearest tube station to the hotel is Kilburn Park. This is 5.69 miles away from St Pancras (if travelling by road). The cost on the tube is £3.20 for each person. The cost in a taxi can be calculated by using the following formula:

Fare in pounds = (nearest whole number of miles × 1.15) + 1.50

You need two taxis to transport you to the station. What is the difference between the taxi and the underground cost?

A 80p
B £1.20
C £1.80
D £90p

Answer:

9 You have arranged to be picked up at 5 p.m. from Leicester station. The journey from your hotel to St Pancras takes 26 minutes.

What is the latest you can set off from your hotel?

A 2:36 p.m.
B 3 p.m.
C 3:04 p.m.
D 4:33 p.m.

Answer: