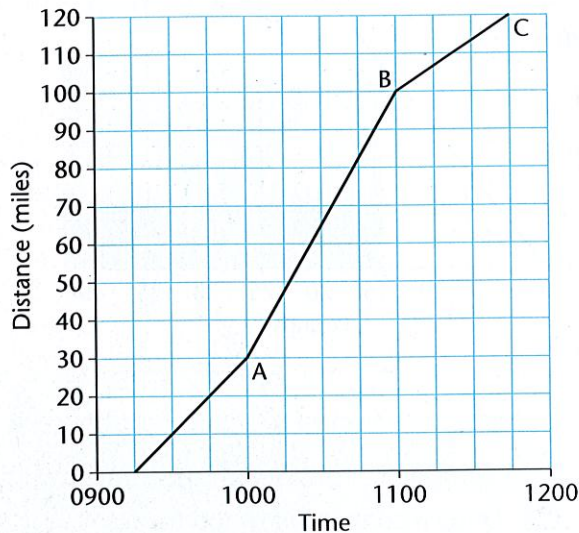


TARGET To interpret line graphs showing journeys and use them to solve problems.

Example

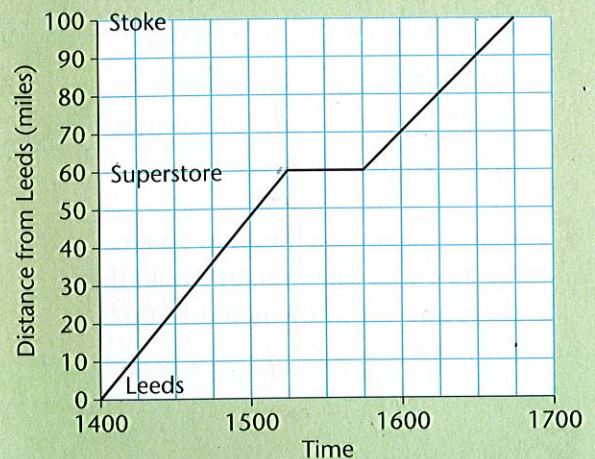
This line graph shows a car journey from the driver's home to Camford.



- 1 When does the journey begin?
Answer 09:15
- 2 How far is it from the driver's home to A?
Answer 30 miles
- 3 How far had the car travelled at:
a) 9:30 Answer 10 miles
b) 10:30? Answer 65 miles
- 4 At what time does the car reach B?
Answer 11:00
- 5 What is the distance from B to C?
Answer 20 miles
- 6 Give the car's speed between A and B.
Answer 70 miles per hour

A

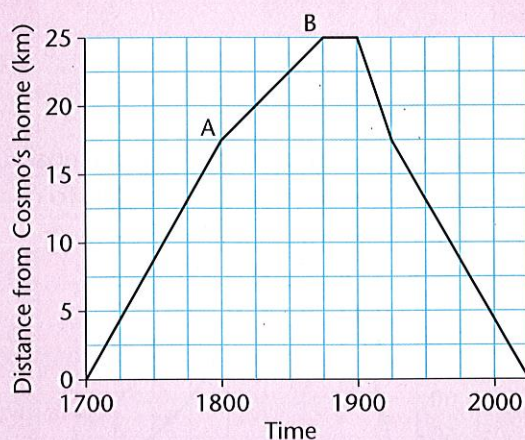
This graph shows Katina's car journey from Leeds to Stoke.



- 1 How far is it from Leeds to Stoke?
- 2 How far is it from the superstore to Stoke?
- 3 At what time does Katina:
a) arrive at the superstore
b) arrive at Stoke?
- 4 How long does she stop at the superstore?
- 5 How long does the journey take:
a) from Leeds to the superstore
b) from the superstore to Stoke?
- 6 How far has Katina travelled at 4pm?
- 7 At what time does Katina pass a sign which tells her it is 10 miles to Stoke?
- 8 Give the speed of the car from the superstore to Stoke.
- 9 How long does the journey take altogether?

B

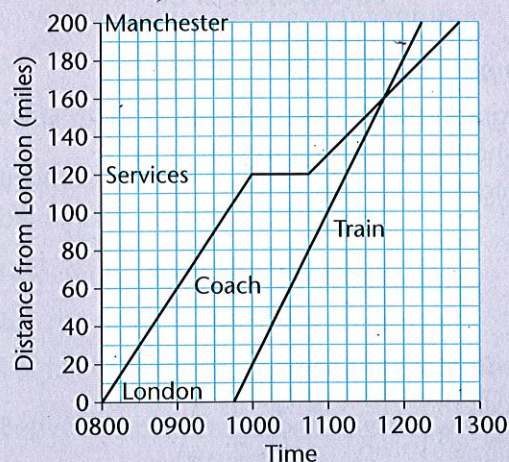
Cosmo cycles to the base of a tall hill (Point A), rides up to the summit (Point B), enjoys the view and then returns home.



- 1 How far is it from Cosmo's house:
 - a) to the base of the hill (A)
 - b) to the summit of the hill (B)?
- 2 At what time did Cosmo:
 - a) begin the return journey
 - b) arrive back at home?
- 3 How long did he spend enjoying the view?
- 4 How long did it take him to cycle:
 - a) from his home to the base of the hill
 - b) from the base of the hill to the summit?
- 5 Give the speed in kilometres per hour at which Cosmo cycled on his return journey:
 - a) from the summit to the base of the hill
 - b) from the base of the hill to his house?

**C**

This graph shows the journeys made by groups of football fans travelling from London to Manchester by coach or train.



- 1 At what time did:
 - a) the coach arrive at the motorway services
 - b) the train leave London?
- 2 How far had the coach travelled before it stopped at the services?
- 3 How long did the coach stop?
- 4 How far had the train travelled when:
 - a) the coach arrived at the services
 - b) the coach left the services?
- 5 How far apart were the coach and the train:
 - a) when the coach left the services
 - b) at 12:00
 - c) when the train arrived at Manchester?
- 6 At what time had both coach and train travelled the same distance?
- 7 What was the speed in mph of:
 - a) the coach from London to the services
 - b) the coach from the services to Manchester
 - c) the train?

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A

- 1 100 miles
2 40 miles
3 a) 15:15
b) 16:45
4 30 minutes

- 5 a) 1 hour 15 mins.
b) 1 hour
6 70 miles
7 16:30
8 40 miles per hour
9 2 hours 45 mins.

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B

- 1 a) 17.5 km
b) 25 km
2 a) 19:00
b) 20:15
5 a) 30 km per hour
b) 17.5 km per hour

- 3 15 mins.
4 a) 1 hour
b) 45 mins

C

- 1 a) 10:00
b) 9:45
2 120 miles
3 45 mins.
4 a) 20 miles
b) 80 miles
5 a) 40 miles
b) 10 miles
c) 20 miles
6 11:45
7 a) 60 mph
b) 40 mph
c) 80 mph

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A

- 1 20°C
2 4 minutes
3 8
4 2 mins., 12 min.
5 5°C
6 a) 40°C
b) 55°C

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B

- 1 a) 14°C
b) 5°C
5 a) 5°C
b) 2°C
2 a) March
b) August
6 a) April-May
b) Sept.-October
3 20°C
4 February

C

- 1 a) 8th
b) 9th
2 a) 3°C
b) 4°C
3 a) 7°C
b) 14°C
4 a) 9th
b) 2nd

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A

- 1 9
2 4
3 8
4 5
5 10°C

B

- 1 97
2 23
3 3
4 2
5 17

C

- 1 1.4
2 2.5
3 12°C
4 2°C
5 4.4

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A

- 1 5
2 7 kg
3 2.5
4 3 books
5 20 lengths
6 17
7 3.5
8 80%

B

- 1 2400 km
2 2.8 passengers
3 125 apples
4 540 miles
5 113 passengers
6 807 apples
7 10 rides
8 4 trains
9 20 bags

C

- 1 65.8 kg
2 2.4 mins.
3 £17.75
4 217.5 kg
5 91 mins.
6 £55.50
7 8 fish
8 30 pages
9 57p

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A

- 1 a) 27
b) 9
c) 3
2 a) 1150 g
b) 5
c) 230 g
3 a) 385 mph
b) 7
c) 55 mph
4 a) 121
b) 11
c) 11
5 a) 49
b) 7
c) 7

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B

- 1 103
2 5
3 1°C

C

- 1 a) 1.4 m
b) 4.66 m
2 3.4 m
3 90 mm
4 3.5

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A

- 1 A 9
B 7
C 13
2 D 6
E 20
F 15
3 G 16
H 20
I 11
4 J 23
K 7
L 17

B

- 1 M 19
N 24
O 28
2 P 25
Q 17
R 36
3 S 40
T 58
U 23
4 V 23
W 39
X 52

C

- 1 A 5
B 9
C 8
D 6
2 E 12
F 8
G 7
H 3
3 J 9
K 14
L 18
M 3
N 12
4 P 13
Q 16
R 21
S 5
T 19

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A

- 1 720
24 30
8 3 10
2 525
15 35
3 5 7
3 2880
72 40
9 8 5
4 264
22 12
11 2 6
5 384
24 16
6 4 4
6 252
14 18
7 2 9

B

- 1 768
24 32
6 4 8
3 2 2 4
4 2880
144 20
36 4 5
9 4 1 5

- 2 3000
20 150
4 5 30
4 1 5 6
5 3240
36 90
6 6 15
3 2 3 5

- 3 3240
60 54
10 6 9
5 2 3 3