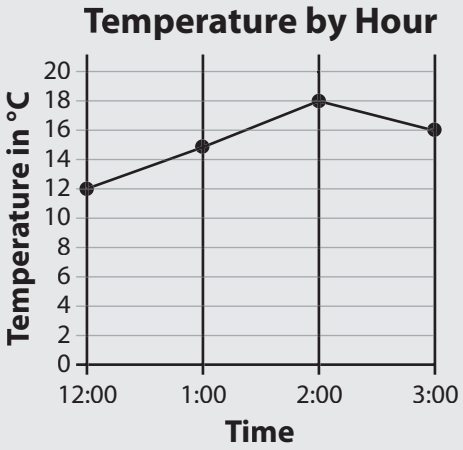
40 Line Graphs

SOL 4.20

Example

The line graph below displays the temperature each hour from 12 noon to 3 P.M.



When was the temperature 16°C?

A 12:00
B 1:00
C 2:00
D 3:00

Thinking It Through

Skim Make sure you read the line graph before trying to answer the question.

A line graph is read like a coordinate grid. Find the value on one axis then find the corresponding value on the other axis. Here, find the temperature on the *y*-axis and then find the corresponding time on the *x*-axis.

Find the point for 16°. Then look down to find which time corresponds with that temperature. That time was *3:00, answer D.*

Assemble It was also 16°C at a about 1:30, but 1:30 was not an answer choice! If the first answer you come to is not one of the answer choices, keep looking.

Review

- A **line graph** shows *change over time*.
- Read a line graph the same way as you would read an ordered pair.
- The numbers in a line graph need to be displayed in equal intervals. In the line graph above, the intervals on the horizontal axis are 1 hour, and on the vertical axis 2°C.
- Each axis of a bar graph has a label. A line graph should also contain a title.

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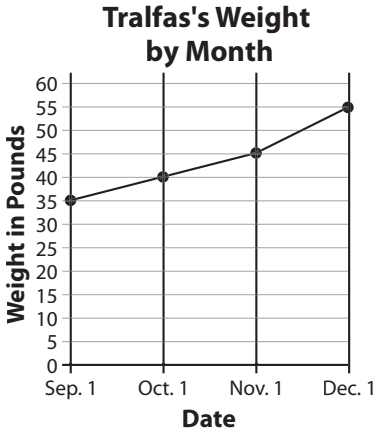
DIRECTIONS Read and solve each question. Then circle the letter of the best answer.

Use the line graph to answer questions 1 and 2. The line graph displays the weight of a dog from September 1 to December 1.



1 How much weight did Tralfas gain between September 1 and December 1?

A 15 pounds
B 20 pounds
C 25 pounds
D 30 pounds

Read a line graph like a coordinate plane.

2 Which sentence is *not* true?

F Tralfas gained weight each month.
G Tralfas gained the most weight between November and December.
H Tralfas gained at least 10 pounds each month.
J Tralfas gained as much weight between September and October as between October and November.

3 The number of members of the running club from 2003 to 2006 is listed in the table below.

Running Club Membership

Year	2003	2004	2005	2006
Members	20	24	32	28

Which line graph correctly displays the data?

A

B

C

D

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