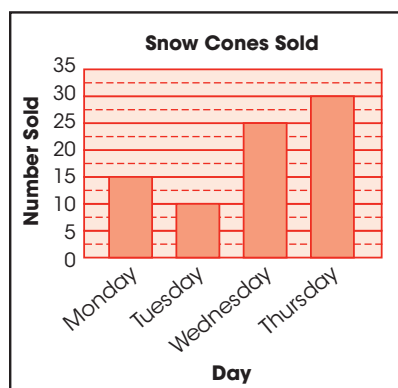


# Learn About

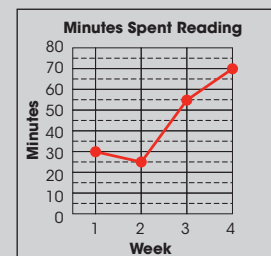
## Interpreting Graphs and Charts: Line Graphs and Bar Graphs

Some graphs and charts are used to show how many items are in a group. A **line graph** uses points and lines to show how many. Line graphs show changes over time. A **bar graph** uses numbers and bars to show how many. **Charts** use numbers to show how many. The bar graph and the chart below each show the number of snow cones sold on Monday, Tuesday, Wednesday and Thursday.



Snow Cones Sold	
Day	Number Sold
Monday	15
Tuesday	10
Wednesday	25
Thursday	30

Dalia recorded the number of minutes that she spent reading at home during the last four weeks. She made a line graph to show the information. How many more minutes did Dalia spend reading during week 3 than during week 1?



Dalia read for 30 minutes during week 1 and for 55 minutes during week 3.

$$55 - 30 = 25$$

Dalia read **25 minutes** more during week 3 than during week 1.



**Line graphs** use points and lines to show changes in amounts over time. **Bar graphs** use numbers and bars to show how many. **Charts** use numbers to show how many.

*Look at the answer choices for each question.  
Read why each answer choice is correct or  
not correct.*

**1. How many students earned an A on the maths test?**

**Ⓐ** 1 student

This is not correct. The bar for A lines up with 3, not 1.

**Ⓑ** 2 students

This is not correct. The bar for A lines up with 3, not 2.

**●** 3 students

This is correct. The bar for A is halfway between 2 and 4. The bar lines up with 3.

**Ⓓ** 4 students

This is not correct. The bar for A lines up with 3, not 4.

**2. How many students earned a B or a C on the maths test?**

**Ⓐ** 16 students

This is not correct. The bar for B lines up with 6 and the bar for C lines up with 8.

$8 + 6 = 14$ , not 16.

**●** 14 students

This is correct. The bar for B lines up with 6 and the bar for C lines up with 8.

$8 + 6 = 14$ .

**Ⓒ** 12 students

This is not correct. The bar for B lines up with 6 and the bar for C lines up with 8.

$8 + 6 = 14$ , not 12.

**Ⓓ** 8 students

This is not correct. The bar for B lines up with 6 and the bar for C lines up with 8.

$8 + 6 = 14$ , not 8.

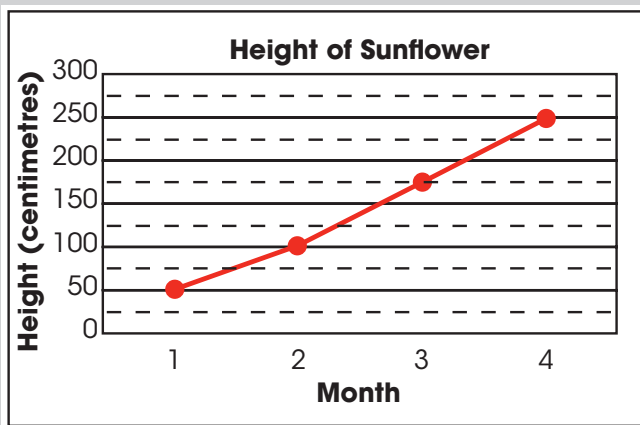
# Lesson

# 3

Read the passage.  
Then do Numbers 1–5.

## Sunflower Garden

Sam grows sunflowers in his garden. Sam likes sunflowers because they attract butterflies. He keeps a weekly record of the height of one sunflower. Sam hopes the flower will grow to a height of 3 metres. The line graph shows the height of the sunflower over four months.



1. Which of these statements about the line graph is true?

- Ⓐ The sunflower grew less than 50 centimetres from month 1 to month 3.
- Ⓑ The sunflower was less than 100 centimetres tall in month 4.
- Ⓒ The sunflower was 150 centimetres tall in month 2.
- Ⓓ The sunflower grew 50 centimetres from month 1 to month 2.

2. How much did the sunflower grow from month 2 to month 4?

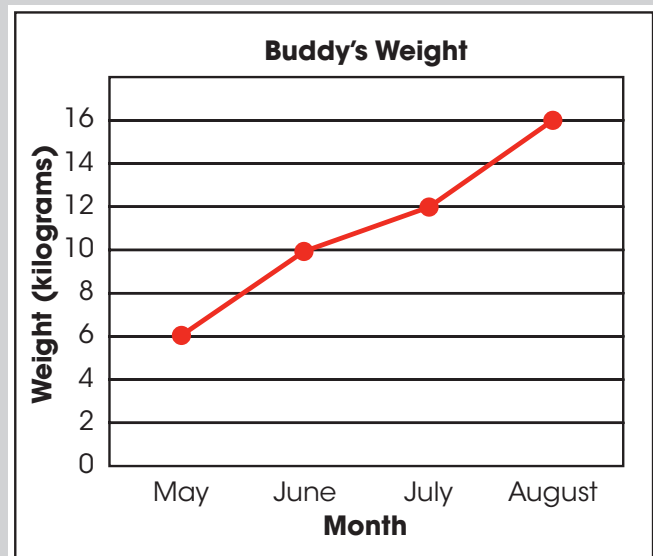
- Ⓐ 50 centimetres
- Ⓑ 100 centimetres
- Ⓒ 150 centimetres
- Ⓓ 200 centimetres

# Lesson 13

Read the passage.  
Then do Numbers 1–5.

## Val's Best Friend

Val got a golden retriever puppy for her birthday. Golden retrievers like to run, swim and play fetch. Val named her puppy Buddy. Val wants Buddy to grow up strong and happy. She gives Buddy a healthy diet and regular exercise. Val weighs Buddy once a month. The line graph shows Buddy's weight for four months.



1. Which of these statements about the line graph is true?

- Ⓐ Buddy weighed 14 kilograms kilograms in July.
- Ⓑ Buddy weighed less than 8 kilograms in May.
- Ⓒ Buddy gained about 8 kilograms from May to June.
- Ⓓ Buddy gained about 6 kilograms from July to August.

2. In which month did Buddy weigh about 16 kilograms?

- Ⓐ May
- Ⓑ June
- Ⓒ July
- Ⓓ August

# Self-Assessment 4

Lessons 16–20

*Answer these questions after you have completed Lessons 16–20. Before you begin, re-read what you wrote in Self-Assessment 3.*

## **FOCUS on Interpreting Graphs and Charts, Book C**

Name \_\_\_\_\_ Date \_\_\_\_\_

1. Rate your work in Lessons 16–20. Circle your answer.

successful

somewhat successful

needs improvement

2. Did any of the questions give you trouble? \_\_\_\_\_

If so, what kind of trouble did you have?

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Is this the same kind of trouble you had in Lessons 11–15? \_\_\_\_\_

3. Did you find the questions easier or more difficult than those in Lessons 11–15?

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Why do you think this is so?

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4. Did you meet the goal you set for yourself for Lessons 16–20? \_\_\_\_\_

Why or why not?

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Cut along the dotted line.