

Answer each of the following multiple choice data management questions. **Pick three of the questions, and explain how you know that your answer is correct.**

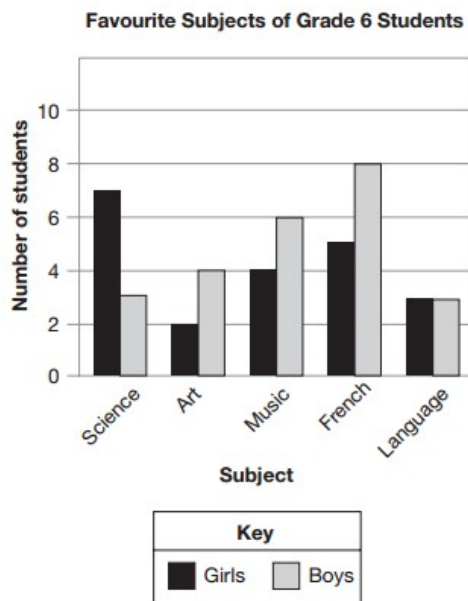
The chart below shows data about DVD sales for 2 weeks.

DVD Type	Week 1	Week 2
Comedy	\$75 800	\$52 750
Mystery	\$108 000	\$99 700
Adventure	\$75 800	\$53 950

Which of the following statements about this data is **false**?

- a Sales for all 3 DVD types decreased over the 2 weeks.
- b Week 2 sales for all 3 DVD types totalled \$206 400.
- c Comedy sold less than either of the other types of DVDs over the 2 weeks.
- d Total sales for adventure DVDs are about double those for mystery.

The following graph shows the favourite subjects of some Grade 6 students.



Based on the data in the graph, which of the following statements is true?

- a Most boys chose science as their favourite subject.
- b Science is the least favourite subject of these students.
- c French is the favourite subject of twice as many students as music.
- d Twice as many girls chose music as chose art as their favourite subject.

What is the mean of a set of data?

- a the value that occurs most often
- b the middle value when the set is arranged in order
- c the difference between the largest and the smallest values
- d the result of adding all the values and dividing by the number of values

Maddie's and Lisa's scores on 5 math quizzes are shown in the table below.

**Math Scores out of 30**

Maddie's scores	20	23	28	21	23
Lisa's scores	21	22	26	25	26

According to the data in the table, Maddie's mean score is

- a lower than Lisa's mean score.
- b the same as Lisa's mean score.
- c higher than Lisa's median score.
- d the same as Lisa's median score.

Mrs. Smyte records the number of people in the school auditorium every hour during a school day. The data she collects show a maximum of 325 people in the auditorium. Which of the following is an appropriate scale for the vertical axis of the line graph for these data?

- a 7 increments with each increment representing 40 people
- b 10 increments with each increment representing 35 people
- c 15 increments with each increment representing 20 people
- d 20 increments with each increment representing 12 people

Mr. Christy records the number of sit-ups the students in his class can do in one minute. The table below shows the results for 8 students.

**Mr. Christy's Class**

Name	Number of sit-ups
Caleb	23
Mireille	34
Jochen	43
Pavel	22
Abdul	43
Sebastian	32
Marina	23
Yusef	33

Which stem-and-leaf plot displays the same data?

Which stem-and-leaf plot displays the same data?

**a Number of Sit-ups**

Stem	Leaf
2	2 3
3	2 2 3 4 4
4	4

**b Number of Sit-ups**

Stem	Leaf
2	2 3
3	2 3 4
4	3

**c Number of Sit-ups**

Stem	Leaf
2	2 3 3
3	3 3 4
4	3 4

**d Number of Sit-ups**

Stem	Leaf
2	2 3 3
3	2 3 4
4	3 3

The pictograph below shows the number of students who ride the bus to school.

**Students Riding the Bus**

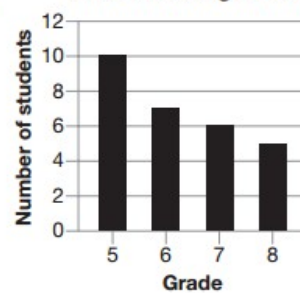
Grade	Number of students
5	XXXXXXXXXX
6	XXXXXXXX
7	XXXXXX
8	XXXXX

**Key**

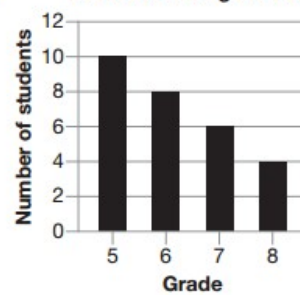
Each X represents 5 students.

Which bar graph represents the same data?

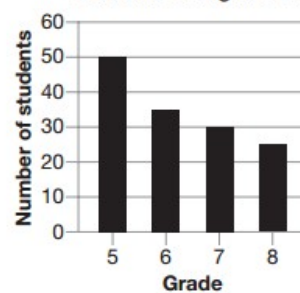
**a Students Riding the Bus**



**b Students Riding the Bus**



**c Students Riding the Bus**



**d Students Riding the Bus**

