**Example 1**

Scores on 10 Science tests taken by Grade 8 students.

| Test Number | Score |
|---|---|
| 1 | 60 |
| 2 | 40 |
| 3 | 70 |
| 4 | 80 |
| 5 | 70 |
| 6 | 90 |
| 7 | 60 |
| 8 | 80 |
| 9 | 100 |
| 10 | 90 |

Identify the ***independent variable***:_____

(Hint: the independent variable goes on the x-axis)

Explain your choice:_____

_____

Identify your ***dependent variable***: _____

(Hint: the dependent variable goes on the y-axis)

Explain your choice:_____

_____

Using your graph :

Which test score is the highest? _____

Which test score is the lowest? _____

**Example 2**

Sarah bought a new car in 2001 for $24,000. The dollar value of her car changed each year as shown in the table below.

| Year | Value |
|------|-------|
| 2001 | $24,000 |
| 2002 | $22,500 |
| 2003 | $19,700 |
| 2004 | $17,500 |
| 2005 | $14,500 |
| 2006 | $10,000 |
| 2007 | $5,800 |

**QUESTION**

1. What is the title of this line graph? _____

2. What is the range of values on the horizontal scale? _____

3. What is the range of values on the vertical scale? _____

4. How many points are in the graph? _____

5. What was the highest value recorded? _____

6. What was the lowest value recorded? _____

7. Did the value of the car increase or decrease over time? _____

8. Identify the *independent variable*:_____

9. Identify your *dependent variable*: _____

**Example 3:** The table below shows people in a store at various times of the day.

| Time | Number of People |
|------|------------------|
| 10am | 2 |
| 11am | 5 |
| 12am | 10 |
| 1pm | 22 |
| 2pm | 15 |
| 3pm | 5 |
| 4pm | 4 |
| 5pm | 4 |
| 6pm | 2 |

**QUESTION**

1. What is the line graph about? _____

2. What is the busiest time of day at the store? _____

3. At what time does business start to slow down? _____

4.  How many people are in the store when it opens?   _____

5. About how many people are in the store at 2:30 pm? _____

6. What was the greatest number of people in the store? _____

7. What was the least number of people in the store?_____

8. Identify the ***independent variable***:_____

9. Identify your ***dependent variable***: _____