Name _____ Date _____ Class _____

Content Practice A

LESSON 3

Acceleration

Directions: *On each line, write the term from the word bank that correctly completes each sentence. Each term is used only once.*

backward	**constant**	**decreasing**	**direction**	**forward**
increasing	**speed**	**velocity**	***x*-axis**	***y*-axis**

1. A moving object undergoes an acceleration when its _____ or _____ changes.

2. When a moving object slows down, its acceleration and _____ are in opposition.

3. When a moving object slows down, an arrow representing its acceleration flips from _____ to _____.

4. On a speed-time graph, speed is plotted on the _____, and time is on the _____.

5. On a speed-time graph, a(n) _____ speed is shown by a line going upward from the left.

6. On a speed-time graph, a(n) _____ speed is shown by a line going downward to the right.

7. On a speed-time graph, a(n) _____ speed is represented by a horizontal line.

Name _____ Date _____ Class _____

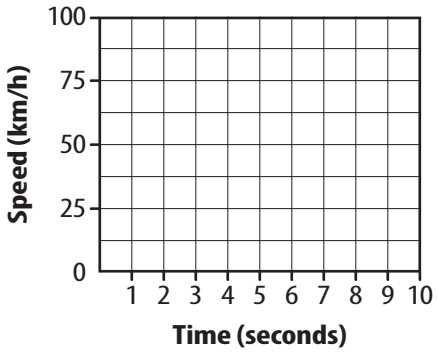
Content Practice B

LESSON 3

Acceleration

Directions: *On the speed-time graph below, draw a line showing the motion of a test car that moved forward at a speed of 50 km/h and crashed into a barrier at the 5-second mark. Continue the line for the full 10 seconds.*

1.



Directions: *Answer each question or respond to each statement on the lines provided.*

2. What is acceleration?

_____

_____

_____

3. When a moving object reduces its speed, what happens to the object's acceleration in relation to its velocity?

_____

_____

4. Why is a car rounding a curve accelerating, even if it is moving at a constant speed?

_____

_____

5. What does each letter in the following equation stand for: $a = (v_f - v_i)/t$?

_____

_____

_____