

**Identify the Independent Variable in Each of the following Situations.**

1. An automobile tire loses  $t$  milliliters of tread traveling  $m$  miles.
2. An object falls  $d$  meters in  $t$  seconds.
3. An athlete runs  $m$  miles and burns  $c$  calories.
4. A garden hose runs for  $m$  minutes and produces  $g$  gallons of water.

**Identify the Dependent Variable in Each of the following Situations.**

1. A tree trunk has  $r$  rings after growing for  $y$  years.
2. The number of links in a chain and the length of the chain.
3. You spend  $c$  dollars on  $t$  number of T-shirts.
4. The number of eggs  $e$  in the carton and the total cost  $t$  of the eggs.

**Determine the Relationship Suggested by the Table**

$x$	1	3	5	7	9	11
$y$	15	17	19	21	23	25

- A. Add 15 to  $x$  to find  $y$
- B. Add 14 to  $x$  to find  $y$
- C. Triple  $x$  to find  $y$
- D. Subtract 14 from  $x$  to find  $y$

$x$	2	5	8	10	11	15
$y$	6	15	24	30	33	45

- A. Add 3 to  $x$  to find  $y$
- B. Divide  $x$  by 3 to find  $y$
- C. Triple  $x$  to find  $y$
- D. Subtract 10 from  $x$  to find  $y$