

## Lesson 3-8: Finding and Estimating Square Roots

### Part 1: Finding Square Roots

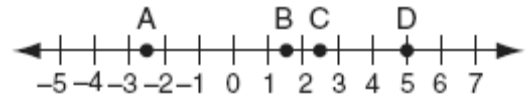
1. 060706a

The expression  $\sqrt{54-b}$  is equivalent to a positive integer when  $b$  is equal to

- [A] 54      [B] -10      [C] 4      [D] 16

3. 010703a, P.I. 7.N.18

Which point on the accompanying number line best represents the position of  $\sqrt{5}$ ?



- [A] C      [B] D      [C] A      [D] B

### Part 2: Estimating and Using Square Roots

2. 010001a, P.I. 7.N.18

The expression  $\sqrt{93}$  is a number between

- [A] 46 and 47      [B] 3 and 9  
[C] 9 and 10      [D] 8 and 9

4. 060502a, P.I. 7.A.6

The amount of time,  $t$ , in seconds, it takes an object to fall a distance,  $d$ , in meters, is

expressed by the formula  $t = \sqrt{\frac{d}{4.9}}$ .

Approximately how long will it take an object to fall 75 meters?

- [A] 2.34 sec      [B] 3.9 sec  
[C] 0.26 sec      [D] 7.7 sec

[1] B

[2] C

[3] A

[4] B