8.NS.A.2: Square Roots

1 The expression $\sqrt{93}$ is a number between
1) 3 and 9
2) 8 and 9
3) 9 and 10
4) 46 and 47

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

1) A
2) B
3) C
4) D

3 The expression $\sqrt{54-b}$ is equivalent to a positive integer when b is equal to
1) –10
2) 54
3) 16
4) 4

4 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?
1) 0.26 sec
2) 2.34 sec
3) 3.9 sec
4) 7.7 sec

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Answer Section

1 ANS: 3
The $\sqrt{93}$ is between the $\sqrt{81}$ and $\sqrt{100}$, so it is between 9 and 10.

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2 ANS: 3 REF: 010703a

3 ANS: 1
$\sqrt{54-(-10)} = \sqrt{64} = 8$

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4 ANS: 3
$t = \sqrt{\frac{d}{4.9}} = \sqrt{\frac{75}{4.9}} \approx 3.9$

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