

8th Grade Math – Final Exam

1. Which of the statements below are true about $\sqrt{22}$?

- ☐ Ⓐ $\sqrt{22}$ is less than 4.
- ☐ Ⓑ $\sqrt{22}$ is greater than 4 but less than 4.5.
- ☐ Ⓒ $\sqrt{22}$ is greater than 4.5 but less than 5.
- ☐ Ⓓ $\sqrt{22}$ is greater than 5.

2. Which equation below can have both 2 and -2 as solutions?

- ☐ Ⓐ $x^2 = 8$
- ☐ Ⓑ $x^2 = 4$
- ☐ Ⓒ $x^2 = 6$
- ☐ Ⓓ $x^2 = 9$

3. The population of Troy, Ohio is 2.5×10^4 and the population of Akron, Ohio is 2×10^5 . The population of Akron is how many times bigger is the population of Troy?

- ☐ Ⓐ 2 times bigger
- ☐ Ⓑ 4 times bigger
- ☐ Ⓒ 8 times bigger
- ☐ Ⓓ 10 times bigger

4. Which of the following is equivalent to $\sqrt[3]{27}$?

- ☐ Ⓐ 3
- ☐ Ⓑ 6
- ☐ Ⓒ 9
- ☐ Ⓓ 12

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Marcel A. Müller



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