Activity: **Principal Roots**

A. Determine the principal roots in each item. If the root is irrational, write IRR. And if the root is imaginary, write IM.

1) $\sqrt{49} =$ ☐   6) $\sqrt{196} =$ ☐

2) $\sqrt{8} =$ ☐   7) $\sqrt{-36} =$ ☐

3) $\sqrt{64} =$ ☐   8) $\sqrt{27} =$ ☐

4) $\sqrt{81} =$ ☐   4) $\sqrt[3]{64} =$ ☐

5) $\sqrt{-9} =$ ☐   10) $\sqrt[3]{-8} =$ ☐

B. Determine which two integers the principal root in each item lies in between.

1) ☐ $< \sqrt{40} <$ ☐

2) ☐ $< \sqrt{8} <$ ☐

3) ☐ $< \sqrt{125} <$ ☐

4) ☐ $< \sqrt{240} <$ ☐

5) ☐ $< \sqrt[3]{36} <$ ☐

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