

NAME: _____

3. Is the square of any whole number also a whole number? Explain.

The real numbers include the rational and the irrational numbers. The rational numbers include the
[1] subsets of natural numbers, whole numbers, and integers.

[2] False. Sample: $\sqrt{2}$ is a real number, but it is not rational.

Yes. If the addition or multiplication of any two whole numbers always results in a whole number, then
[3] the same must be true of any whole number's square.