

Name: _____

SCORE: ____ / 12

Check for Understanding: Concept 3-6 (Rational & Irrational Numbers)

Classify each number as rational or irrational. Explain!!

2pt 1. $\frac{2}{3}$ rational; the decimal is repeating

2pt 2. $\frac{2}{\sqrt{3}}$ irrational; the decimal doesn't terminate or repeat

2pt 3. -16 rational; all integers are rational (can be written as a repeating/terminating decimal)

2pt 4. 2π irrational; the decimal doesn't terminate or repeat

True or False.

- 5. The sum of a rational number and an irrational number is always a rational number. False
- 6. The product of two rational numbers is always a rational number. True
- 7. The product of a nonzero rational number and an irrational number is always an irrational number. True
- 8. The sum of two rational numbers is always a rational number. True

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3. -16 _____

4. 2π _____

True or False.

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