

| | | | T / (* / |
|----|-------------------------------------|------------------------------|-----------------------|
| | | Rational or Irrational | Justification |
| | .7 | | |
| | $\frac{3}{4}$ | | |
| | 7 | | |
| | $\frac{\sqrt{3}}{3}$ | | |
| | 2π | | |
| 2. | For each statement, stat | e if it is true or false. Ju | stify your reasoning. |
| | | True or False | Justification |
| | $\sqrt{10} < 5$ | | |
| | $\sqrt{8} > 3.2$ | | |
| | $3 < \sqrt{12} < 4$ | | |
| | $\frac{\sqrt{10}}{2} = \sqrt{5}$ | | |
| | $5 - \sqrt{5} < \frac{\sqrt{5}}{2}$ | | |

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Part B: Square & Cube Roots [8.EE.2]

| Example: $\sqrt{80}$ | A) $\sqrt{60}$ |
|---|--------------------|
| $8^2 = 64$ | |
| $8.8^2 = 77.44$ $\sqrt{80} \approx 8.9$ | |
| $8.9^2 = 79.21 \qquad \qquad 8.8 < \sqrt{80} < 9$ | |
| $9^2 = 81$ | |
| B) $\sqrt{16+15}$ | C) $\sqrt{1-8+15}$ |
| | |
| | |
| | |
| | |
| D) 2√7 | E) $\sqrt[3]{21}$ |
| D) 2N T | |
| | |
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| | |
| | |

Part C: Pythagorean Theorem [8.G.7]

4. **Solve** for the missing side of the right triangle, **approximating** your answer to the nearest tenth. **Show** your work and **justify** your reasoning.

