1. Find the fraction equivalent of each of the following numbers in simplest form.
- $0.\overline{6} =$

- $0.\overline{81} =$

- $0.\overline{53} =$

2. What is the decimal expansion of the following fraction?

$\frac{1}{3}$

3. What is the decimal expansion of the following fraction?

$\frac{4}{9}$

4. What is the decimal expansion of the following fraction?

$\frac{1}{2}$

5. What is the decimal expansion of the following fraction?

$\frac{1}{5}$

6. What is the decimal expansion of the following fraction?

$\frac{1}{10}$

7. Classify the real numbers below as rational or irrational numbers.

- $\frac{\pi}{2}$

- $\sqrt{8}$

- $\sqrt{4}$

- $\sqrt{90}$

- $\frac{2}{3}$

- π

- $\frac{1}{4}$

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8. Which of the following is an irrational number?

A. $\sqrt{25}$ B. $\sqrt{27}$ C. $\frac{9}{11}$ D. 3.8

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9. Which of the following is a rational number?

A. $\sqrt{53}$ B. π C. $\sqrt{144}$ D. $\sqrt{83}$

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10. What is the fraction for the following decimal expansion?

$0.16 =$

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11. What is the fraction for the following decimal expansion?

$0.4 =$

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12. What is the decimal expansion of the following fraction?

$\frac{1}{6}$