Name: **Class/Set:**

Convert Recurring Decimals to Fractions

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1: Convert the following recurring decimals to fractions in their simplest form:

a) $0.\dot{5}$ b) $0.\dot{7}$

_____ _____

2: Convert the following recurring decimals to fractions in their simplest form:

a) $0.\dot{6}\dot{7}$ b) $0.\dot{4}\dot{3}$

_____ _____

3: Convert the following recurring decimals to fractions in their simplest form:

a) $0.\dot{3}6\dot{7}$ b) $0.\dot{7}6\dot{9}$

_____ _____

4: Convert the following recurring decimals to fractions in their simplest form:

a) $0.1\dot{8}$

b) $0.2\dot{6}$

5: Convert the following recurring decimals to fractions in their simplest form:

a) $0.5\dot{2}\dot{8}$

b) $0.2\dot{8}\dot{7}$

6: Convert the following recurring decimals to fractions in their simplest form:

a) $0.3\dot{5}8\dot{9}$

b) $0.6\dot{1}7\dot{7}$

Answers: Convert Recurring Decimals to Fractions

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1: a) $\frac{5}{9}$ b) $\frac{7}{9}$

2: a) $\frac{67}{99}$ b) $\frac{43}{99}$

3: a) $\frac{367}{999}$ b) $\frac{769}{999}$

4: a) $\frac{17}{90}$ b) $\frac{24}{90} = \frac{4}{15}$

5: a) $\frac{523}{990}$ b) $\frac{285}{990} = \frac{19}{66}$

6: a) $\frac{3586}{9990} = \frac{1793}{4995}$ b) $\frac{6171}{9990} = \frac{2057}{3330}$