Repeating Decimal Homework. Show your work.

1.

Which fraction represents a repeating decimal?

A. $\frac{3}{11}$

B. $\frac{3}{10}$

C. $\frac{3}{8}$

D. $\frac{3}{5}$

2.

Which fraction is equivalent to $0.\overline{6}$?

A. $\frac{1}{16}$

B. $\frac{1}{6}$

C. $\frac{1}{3}$

D. $\frac{2}{3}$

3.

Which fraction is equivalent to a repeating decimal?

A. $\frac{1}{10}$

B. $\frac{1}{15}$

C. $\frac{1}{16}$

D. $\frac{1}{20}$

4.

Which number is equivalent to $2.\overline{42}$?

A. $\frac{1}{21}$

B. $2\frac{21}{50}$

C. $2\frac{19}{45}$

D. $2\frac{14}{33}$

5.

Which rational number is equivalent to $0.\overline{36}$?

A. $\frac{4}{9}$

B. $\frac{11}{30}$

C. $\frac{4}{11}$

D. $\frac{9}{25}$

6.

A plant grew $1.\overline{3}$ inches within the first month and $0.\overline{5}$ of an inch within the next month. How many total inches did the plant grow in the first two months?

A. $1\frac{1}{8}$

B. $1\frac{4}{5}$

C. $1\frac{5}{6}$

D. $1\frac{8}{9}$

7. CHANGE TO A REPEATING DECIMAL

a. $3.\overline{4}$

b. $.\overline{74}$

c. $.3\overline{9}$

d. $.8\overline{5}$

e. $1.09\overline{5}$

8.

a. $1.\overline{3} \times \frac{1}{3}$

b. $.\overline{4} + 2\frac{3}{4}$

c. $.0\overline{4} - 3\frac{2}{5}$ IF YOUR ANSWER IS GIVEN IN THE FORM $\frac{a}{b}$ WITH NO COMMON FACTORS WHAT IS b?