**Recurring Products - Answers**

I want to investigate whether multiplying recurring decimals produces a recurring answer. The trouble is that I am struggling to put the decimals into my calculator.

Can you help me convert all the decimals to fractions so that I can easily put them in my calculator?

*Problem 1:*

$$0.\dot{7}×0.\dot{1}\dot{8}$$

$$\frac{7}{9}×\frac{18}{99}=\frac{7}{9}×\frac{2}{11}$$

*Problem 2:*

$$0.\dot{3}\dot{9}×0.\dot{4}0\dot{6}$$

$$\frac{39}{99}×\frac{406}{999}=\frac{13}{33}×\frac{406}{999}$$

*Problem 3:*

$$0.0\dot{4}×0.\dot{3}85\dot{4}$$

$$\frac{4}{90}×\frac{3854}{9999}$$

*Problem 4:*

$$0.0\dot{5}\dot{3}×0.7\dot{4}$$

$$\frac{53}{990}×\frac{67}{90}$$

*Problem 5:*

$$0.35\dot{6}×0.7\dot{3}64\dot{2}$$

$$\frac{321}{999}×\frac{73635}{99990}=\frac{107}{300}×\frac{4909}{6666}$$