## **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?

<u>Problem 1:</u>
$0.7 \times 0.18$
$\frac{7}{9} \times \frac{18}{99} = \frac{7}{9} \times \frac{2}{11}$
<u>Problem 2:</u>
0. 39 × 0. 406
$\frac{39}{99} \times \frac{406}{999} = \frac{13}{33} \times \frac{406}{999}$
<u>Problem 3:</u>
$0.04 \times 0.3854$
$\frac{4}{90} \times \frac{3854}{9999}$
90 9999
<u>Problem 4:</u>
$0.0\dot{5}\dot{3}  imes 0.7\dot{4}$
$\frac{53}{990}\times\frac{67}{90}$
<u>Problem 5:</u>

 $0.35\dot{6} \times 0.7\dot{3}64\dot{2}$  $\frac{321}{999} \times \frac{73635}{99990} = \frac{107}{300} \times \frac{4909}{6666}$