**Name:**

1.  Using the calculator, if you need to, to fill in the blank parts in this table.
    If the symbol U n/d ➡ n/d appears at the top of the calculator screen, the fraction
    can be written in simpler form by pressing [Simp] and [Enter] .

| First fraction | Second fraction | Answer to first × second | Simplified fraction if possible |
|---|---|---|---|
| $\dfrac{1}{3}$ | $\dfrac{3}{1}$ | | |
| $\dfrac{1}{4}$ | $\dfrac{4}{1}$ | | |
| $\dfrac{2}{3}$ | $\dfrac{3}{2}$ | | |
| $\dfrac{3}{2}$ | $\dfrac{2}{3}$ | | |
| $\dfrac{3}{4}$ | $\dfrac{4}{3}$ | | |
| $\dfrac{1}{5}$ | | $\dfrac{5}{5}$ | |
| | $\dfrac{2}{1}$ | | 1 |
| $\dfrac{5}{4}$ | | $\dfrac{20}{20}$ | |

a) Explain how the second fraction is chosen when the first is given.

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b) Write down another two fractions that have this property and check on the calculator.

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Fractions with this property are called **RECIPROCALS** of each other.

2. Dividing one fraction by another fraction.
   Use your calculator to complete this table giving the simplest fraction answer.
   Make sure that your calculator is in **Man**ual mode and **n/d**

| First fraction | Second fraction | Answer to first ÷ second | Simplified fraction if possible |
|---|---|---|---|
| $\dfrac{1}{3}$ | $\dfrac{1}{3}$ | | |
| $\dfrac{1}{4}$ | $\dfrac{1}{4}$ | | |
| $\dfrac{2}{3}$ | $\dfrac{1}{5}$ | | |
| $\dfrac{1}{5}$ | $\dfrac{2}{3}$ | | |
| $\dfrac{2}{5}$ | $\dfrac{3}{2}$ | | |
| $\dfrac{3}{2}$ | $\dfrac{2}{5}$ | | |
| $\dfrac{1}{2}$ | $3$ | | |
| $3$ | $\dfrac{1}{2}$ | | |

a) Can you see what is happening in a division question?

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b) Guess the answer to $\frac{1}{4} \div \frac{1}{3}$ and check on the calculator.

c) Try one more of your own, then find a partner and check each other's work.