



1) There are many possible answers. For example,

$$2.01 \times 3 = 6.03$$

$$1.98 \times 3 = 5.94$$

$$3.01 \times 2 = 6.02$$

$$0.98 \times 7 = 6.86$$

$$1.97 \times 3 = 5.91$$

2) The products will add together to make the digit that you have chosen, e.g.

$$0.98 \times 3 = 2.94$$

$$0.02 \times 3 = 0.06$$

$$2.94 + 0.06 = 3$$

$$0.98 \times 2 = 1.96$$

$$0.02 \times 2 = 0.04$$

$$1.96 + 0.04 = 2$$

$$0.99 \times 2 = 1.98$$

$$0.01 \times 2 = 0.02$$

$$1.98 + 0.02 = 2$$

$$0.23 \times 8 = 1.84$$

$$0.77 \times 8 = 6.16$$

$$6.16 + 1.84 = 8$$

Possible explanations could be:

This works because  $0.23 \times 8$  is another way of saying  $23/100$  of 8.

$0.77 \times 8$  is another of saying  $77/100$  of 8.

If we add together  $23/100$  of 8 (1.84) and  $77/100$  of 8 (6.16) we get  $100/100$  of 8 or the whole number 8 again.

Because you are multiplying each part of the addition calculation by the chosen digit, then the answer will also follow the same pattern, e.g.  $1 \times$  chosen digit = chosen digit.

This works because you are finding two fractions of the same multiplier and those two fractions have a total of one. So, when you multiply your number by both fractions, you are actually multiplying by one.