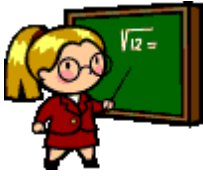




HELPING AT HOME MULTIPLICATION 2

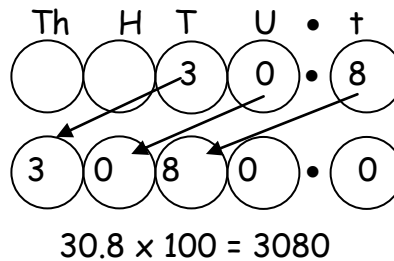
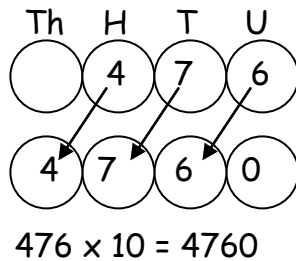


Multiplying by multiples of 10, 100 and 1000



To multiply by **10** you move every digit **one** place to the left.
 To multiply by **100** you move every digit **two** places to the left.
 To multiply by **1000** you move every digit **three** places to the left.

Example 1 (a) Multiply 476 by 10 (b) Multiply 30.8 by 100



(c) 35×30

To multiply by 30,
multiply by 3,
then by 10.

$$35 \times 3 = 105$$

$$105 \times 10 = 1050$$

so $35 \times 30 = 1050$

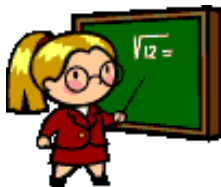
(d) 436×600

To multiply by
600, multiply by 6,
then by 100.

$$436 \times 6 = 2616$$

$$2616 \times 100 = 261600$$

so $436 \times 600 = 261600$



We may also use these rules for multiplying decimal numbers.

Example 2

(a) 2.36×20

$$2.36 \times 2 = 4.72$$

$$4.72 \times 10 = 47.2$$

so $2.36 \times 20 = 47.2$

(b) 38.4×50

$$38.4 \times 5 = 192.0$$

$$192.0 \times 10 = 1920$$

so $38.4 \times 50 = 1920$