Multiplying Numbers Mentally

Drawing Upon Known Facts



Multiply by Partitioning 10s

$$21 \times 7 =$$

Partition
$$21 = 10 + 10 + 1$$
 $(x7)/(x7)/(x7)$

Split the larger number into tens and ones.

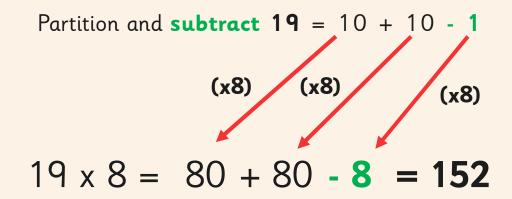
$$21 \times 7 = 70 + 70 + 7 = 147$$

Remember to add up all the calculations for the answer!

Multiply by Partitioning 10s and Subtract

Round a number to the nearest 10 to make it easier to partition.

$$19 \times 8 =$$



Remember to include the amount that needs to be subtracted to get back to the original number!

Multiply by Complex Partitioning

You can use your multiplication knowledge of up to the 12x table to answer much larger calculations.

$$18 \times 12 =$$

Just partition the larger number into values you can already calculate mentally!

