

# Patterns of Multiplication

To Multiply	How to do it	Example to Multiply
2	add the number to itself	$2 \times 11 = 11 + 11$ $11 + 11 = 22$
5	the last digit of the number follows the pattern 5, 0, 5, 0	$5 \times 1 = 5$ $5 \times 2 = 10$ $5 \times 3 = 15$ $5 \times 4 = 20$
6	multiplying 6 by any even number gives an answer that ends in the same last digit as the even number	$6 \times 12 = 72$ $6 \times 8 = 48$
9	multiply the number by 10, then subtract the number	$9 \times 7 = 10 \times 7 - 7$ $10 \times 7 - 7 = 63$
12	multiply the original number first by 10, then multiply the original number by 2, and then add the two answers	$12 \times 12 = ?$ $12 \times 10 = 120$ $12 \times 2 = 24$ $120 + 24 = 144$
20	multiply the number by 10 then multiply the answer by 2	$14 \times 20 = 14 \times 10 \times 2$ $14 \times 10 = 140$ $140 \times 2 = 280$