Multiplication of two Single Digit Numbers Nikhlam Sutra.
For Example
Multiply 7 by 6.
Step1
Subtract both the single digit numbers from 10. Write down the remainders
(complements).
Subtract 7 and 6 from 10.
Base 10 Remainder
$10 - 7 = 3$
$10 - 6 = 4$
Step2
The product will have two parts left digit and right digit.
Step3
To obtain the right digit, multiply the remainders. If the product is more than 10, write its
unit digit on the right side and take carry to the left side.
Left side   Right side
$10 - (3 + 4)$ $3 \times 4 = 12$
$10 - 7 = 3$
Step4
To obtain the left digit, subtract the base 10 from the sum of the given two
numbers.
Subtract the sum of remainders (complements) from base 10
Left side   Right side
3   2
1 (carry)
Step5
Add the carry to the left side (if any) and write the result.
Left Side   Right Side
3+1   2

4   2
Result = 42

Exercise
Find the product of :
(i) $9 \times 8 =$
(ii) $6 \times 5 =$
(iii) $7 \times 3 =$
(iv) $9 \times 6 =$
(v) $8 \times 7 =$