

Multiplication by Multiples of 10 or 100.

Multiplication by 20, 300, etc.

To multiply by 20, or 300, do so using two steps.

Step 1 \Rightarrow multiply by the 10 or 100 first

Step 2 \Rightarrow then multiply by the 2, 3, 4 etc.

Examples :-

To multiply 763×20

Step 1 Find $763 \times 10 = 7630$

Step 2 Now find

$$\begin{array}{r} 7630 \\ \times 2 \\ \hline 15260 \end{array}$$

To multiply 315×400

Step 1 Find $315 \times 100 = 31500$

Step 2 Now find

$$\begin{array}{r} 31500 \\ \times 4 \\ \hline 126000 \end{array}$$

Exercise 8

1. Try to do the following **mentally** :- (use the 2-step approach)

- | | | | | | | | |
|---|----------------|---|-----------------|---|-----------------|---|-----------------|
| a | 21×20 | b | 31×30 | c | 12×40 | d | 32×60 |
| e | 20×25 | f | 30×103 | g | 50×60 | h | 60×40 |
| i | 80×70 | j | 30×203 | k | 20×613 | l | 90×410 |

2. Calculate each of the following (not necessarily mentally) :-

- a 341×40 [Find 10×341 first = 3410 and then find 3410×4]
- | | | | | | | | |
|---|-----------------|---|-----------------|---|-----------------|---|-----------------|
| b | 723×60 | c | 509×90 | d | 278×70 | e | 480×30 |
| f | 923×70 | g | 498×20 | h | 316×80 | i | 278×90 |

3. Calculate each of the following :-

- a 254×200 [Find 254×100 first = 25400 and then find 25400×2]
- | | | | | | |
|---|------------------|---|------------------|---|------------------|
| b | 269×300 | c | 208×400 | d | 836×500 |
| e | 410×900 | f | 869×600 | g | 927×700 |
| h | 987×800 | i | 567×900 | j | 999×900 |

