

## Multiply 2-Digit Numbers by 2-Digit Numbers – II

1. Use place value and regrouping to find the product.

Example

$$\begin{array}{r} 11 \\ 56 \\ \times 32 \\ \hline 112 \\ 1680 \\ \hline 1792 \end{array}$$

1. Multiply the ones.  $2 \times 6$  Ones = 12 Ones = 1 Tens + 2 Ones. Write the ones digit at ones place in the product and tens digit (regrouped) on top of tens digit.
2. Multiply the tens ( $2 \times 5$  Tens = 10 Tens). Add the regrouped 1 ten = 10 tens + 1 Ten = 1 Hundred + 1 Ten). Write 1 at the tens place in the product and 1 at the hundreds place.
3. Multiply the Tens with Ones.  $3$  Tens  $\times 6$  ones =  $30 \times 6 = 180$  ones = 1 Hundred + 8 tens + 0 ones. Write 0 at ones place and 8 at tens place. Put regrouped 1 (for 1 Hundred) at top of tens digit of the first number.
4. Multiply the Tens with Tens.  $3$  Tens  $\times 6$  Tens =  $30 \times 50 = 1500$ . Add the regrouped hundred and it becomes 1600. Total is 1 Thousand + 6 hundreds. Write 6 at hundreds place and 1 at thousands place.
5. Add both the numbers.

$$\begin{array}{r} 36 \\ \times 13 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 87 \\ \times 14 \\ \hline \end{array}$$

$$\begin{array}{r} 73 \\ \times 42 \\ \hline \end{array}$$

$$\begin{array}{r} 51 \\ \times 44 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ \times 53 \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ \times 38 \\ \hline \end{array}$$

$$\begin{array}{r} 92 \\ \times 18 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ \times 39 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \times 44 \\ \hline \end{array}$$

2. Monthly subscription cost of a print newspaper is \$24. How much will it cost to get the newspaper for a year?

Solution:

3. Area A for a circus show contains 32 rows, each row having 24 seats. How many people can sit in area A and watch the circus?

Solution:

4. How much will it cost to buy 16 gallons of paint if each gallon of paint costs \$49?

Solution: