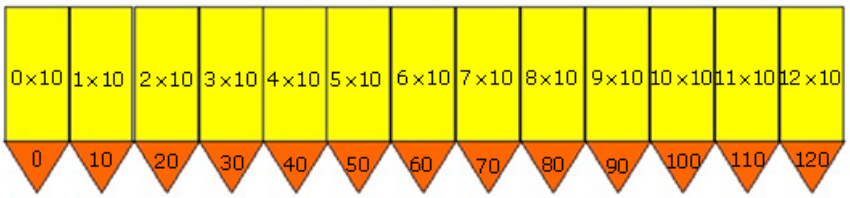
Patterns on the Multiplication Table

Look at the 10 Facts Chart.

10 Facts Chart



The product of any number by 10 is the number itself with a zero to its right.

You can use the basic facts for 10 and a model or other facts to help you find the product of factors greater than 10.

Let us find the product of 12 and 11

STEP 1

Write an addition expression

$(10+2)\times 11$

using break apart numbers.

STEP 2

Use the 10 Facts Chart and model

$(10\times 11)+(2\times 11)=$ __?__

a model to find the products.

STEP 3

Find the sum of the products.

$110 \quad + \quad 22 = 132$

So, 11 × 12 = 132

Examples:

A- Find the product or the quotient.

1) 121 ÷ 11 = **11**

2) 7 x 11 = **77**

3) 88 ÷ 11 = **8**

4) 72 ÷ 12 = **6**

B- Multiply the input by 11

Input	4	8	12
Output	**44**	**88**	**132**

C- Divide the output by 12

Input	6	**7**	8
Output	**72**	84	**96**