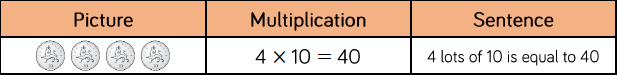
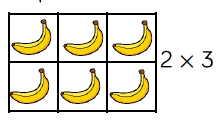
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| Knowledge |
| * When we double we add together the same quantity twice. |
| * Repeated addition is the process of adding the same quantity several times.   e.g. 2 + 2 + 2 5 + 5 + 5 + 5 |
| * An array is a pictorial representation of a repeated addition. Arrays are made up of columns and rows. Each column and row is an equal group. We can use arrays to help solve multiplication problems |
| * When we multiply two numbers together we are working out how many times we see the same equal group   e.g. oo oo oo oo  2 + 2 + 2 + 2  2, 4 times  2 x 4 |

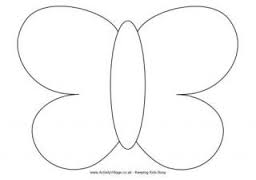
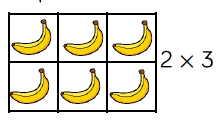
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| Vocabulary | Definitions |
| Double | Twice the quantity |
| Equal | Same as |
| Repeated addition | Equal groups of a number added together e.g. 2 + 2 + 2 |
| Quantity | The value of a number e.g. 3 and 5, 5 is the largest quantity |
| Lots of/Groups of | Several groups of the same quantity |
| Array | Arrangement using rows and columns to represent a multiplication |
| Multiply | Repeated addition  e.g. 2 + 2 + 2 same as 2 x 3 |
| Column | Vertical group within an array |
| Row | Horizontal group within an array |
| Product | A quantity created by multiplying 2 quantities together |
| Factor | A quantity when multiplied with another produces a given number |

Multiplication

x



3 x 2



15

Doubling

5 groups of 10

10 + 10 + 10 + 10 + 10

10, 5 times

10 x 5