Mathematics

## Investigating multiplication patterns Worksheet

Mr Ward

Warm up - Missing values
Can you complete the calculations?
$6 \times \square=24 \quad \square=12 \times 9 \quad 72 \div \square=6 \quad \square=6 \times 7$
$x 8=88 \quad 60 \div \square=12$
$3=\square \div 12 \quad \square \times 3=18$

## Talk Task - Mixed up grids

1. Look carefully at the grids shown.
2. Identify and discuss which multiplication grids they represent.
3. Can you create your own examples?

What multiplication table does each grid show? Why does it look different?


## Blank grids for talk task



## Identifying multiplication patterns.

Here are some parts of various grids.
This time you cannot see the edges.
Can you identify what tables on what grids could have been used?
There might be more than one answer....or there might not be!


## Blank grids




## Challenge Slide

How many different ways can you complete the multiplications shown below?

$$
\begin{array}{ll}
\square \div \square=12 & \square \div \square=60 \\
\square \square=36 & \square \div \square=52 \\
\square \square=48 & \square \div \square=100
\end{array}
$$

