

## Christmas Design using Arrays!



### What you need:

- Grid paper x1 sheet (teachers- you may have some at school or search 'free printable grid paper' online and print)
- Scissors x1
- Pencils, markers
- Glue x1
- Blank paper (white or coloured) x1

### Follow these instructions to make your Christmas design:

- On your **grid paper**, first **draw**, then **cut out** ALL these arrays:

3 x 4 (3 rows of 4)

4 x 6 (4 rows of 6)

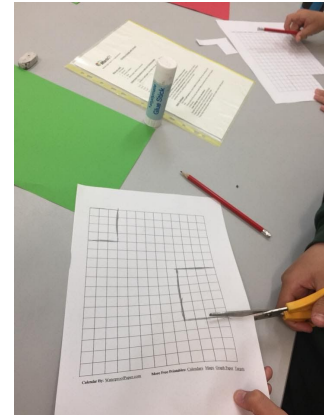
5 x 5 (5 rows of 5)

7 x 9 (7 rows of 9)

8 x 2 (8 rows of 2)

3 x 7 (3 rows of 7)

3 x 3 (3 rows of 3)



- Using your cut out arrays, **design a Christmas art-work!**
- **Paste your arrays** onto the blank paper to create a design.
- Next, **use your pencils and markers** to add details and colours.
- It could be a **Christmas themed scene**, such as Santa with presents or a Christmas tree or a sleigh full of gifts...it can be anything your imagination can create!



### Next...

### Maths Challenges!

- 1) How many **grid squares** are used in **total** in this design? Show your working out for this.
- 2) **Super challenge- try these calculations:**

**2a\***double the total number of grid squares in this design

**2b\***halve the total number of grid squares in this design

**2c\***multiply the total number of grid squares by 10

**2d\***how many more grid squares would you need to make a total of 1000 squares?

**2e\***what size is each square on your grid paper? Can you calculate the **area** that is covered by your design?