

3 12 TILES



- 12 square and 12 triangular tiles
- 1 cm grid paper



- 1 Max's dad had 12 blue square tiles left after tiling the kitchen. He wanted to make a **rectangular** feeding area for Benny, the dog. Find all the **different ways** he might arrange the 12 tiles.



- 2 Jess's mum had 12 red **triangular** tiles left over from her craft group mosaic. Jess wanted to make a tile pattern on a planter box with them. Show ways that Jess could arrange the 12 tiles, **without any gaps**, to decorate the pots.

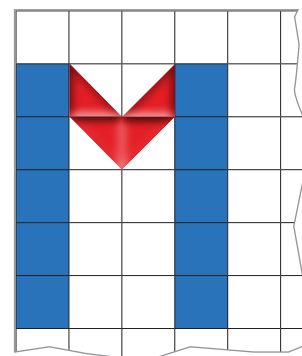
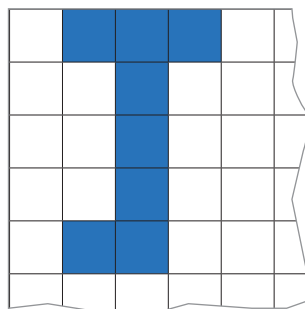


- 3 Jess decided to write some letters using no more than 12 squares and 12 triangles for each one. She drew each letter on grid paper like this.

Key  = 1 cm²



I used 8 square tiles for J.



I used 10 square tiles and 4 triangular tiles for M.



Jess wrote the first letter of her name. It had an **area of 8cm²**.

- Max wrote the first letter of his name. What was the area of his **M**?
- Write your first name using grid paper like Jess and Max. Each letter should use **no more** than 12 squares and 12 triangles.
- Work out the area of your name. Compare the area of your name with a partner's.
- Whose name covers the **largest** area?