

Making Arrays Game

- **2 variations:**
- **Individual Game-** students have their own copy of '**Making Arrays**' sheet and **two dice** (could be 6-sided or 10-sided) Each student **rolls their two dice** and then **draws a matching array** on the grid- e.g. if they roll a 6 and a 2, they can make '6 rows of 2' or '2 rows of 6' and **record the matching number fact** ($6 \times 2 = 12$). They should then **turn their page 90 degrees** and look at the '**turn around fact**' and record this too ($2 \times 6 = 12$)

*This provides practise in the '**rows of**' concept and understanding '**turn around facts**'.*

- **Paired Game-** in **pairs**, students each have their **own copy of 'Making Arrays' sheet** and **two dice** (could be 6-sided or 10-sided) and take turns to roll two dice.

Student number 1, **rolls the two dice and makes an array** to match their roll. They then work out the total number of squares covered in their array.

Student number 2, **does the same**.

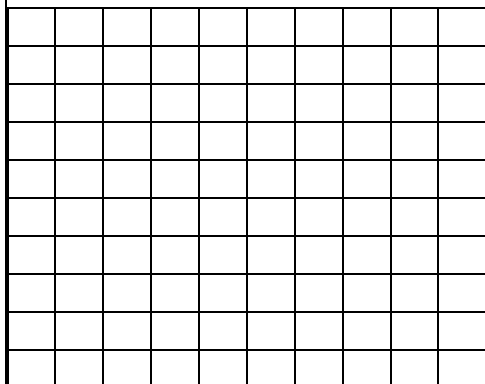
Whoever had the **highest number of squares covered in that round, gets one point**. Keep playing until time is up or sheet filled in. Student with most points wins.

*This provides practise on the '**rows of**' concept and understanding '**turn around facts**' in a fun way.*

Teacher Talk

- Be explicit about the importance of drawing the array correctly- 6 x 4 is 6 'rows of 4 and must be drawn as such.
- Literally turning an array around by 90 degrees, is a great way to show the 'turn around' fact.
- **Extend:** Students who are high attainers in maths could be challenged to record the matching division facts for their arrays.

MAKING ARRAYS



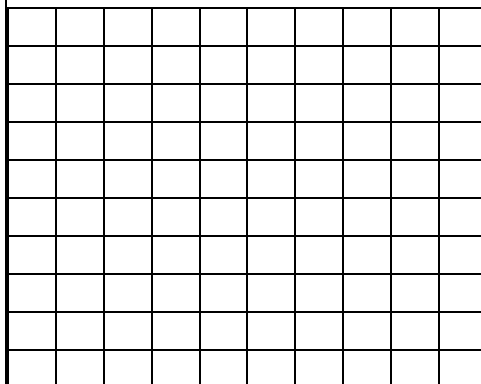
__ rows of __ makes __

__ x __ = __

Turn around fact:

__ rows of __ makes __

__ x __ = __



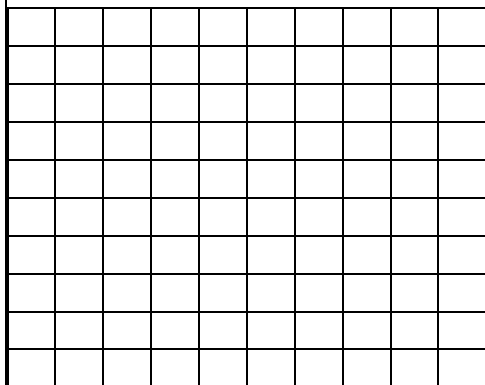
__ rows of __ makes __

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Turn around fact:

__ rows of __ makes __

__ x __ = __



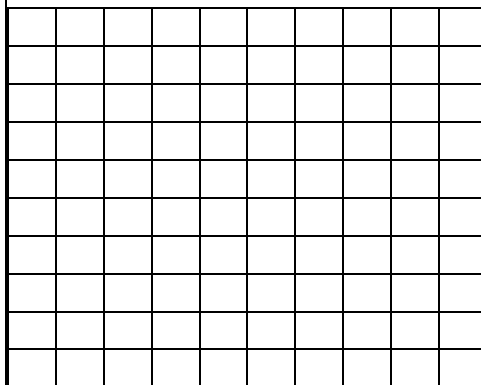
__ rows of __ makes __

__ x __ = __

Turn around fact:

__ rows of __ makes __

__ x __ = __



__ rows of __ makes __

__ x __ = __

Turn around fact:

__ rows of __ makes __

__ x __ = __