

Chilli Challenges - 12/2/21

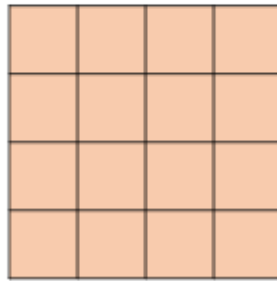
Answer at least one challenge question.

Self-assess your learning with the answers. No Peeking!

Mild Green Chilli



I can change the area of the shape by rearranging the squares.



Hot Yellow Chilli



Look at the shapes. Can you spot the pattern and explain how the area is changing each time?

Draw the next shape. What is its area?

Can you predict what the area of the 6th shape would be?

Can you spot any patterns in your answers?

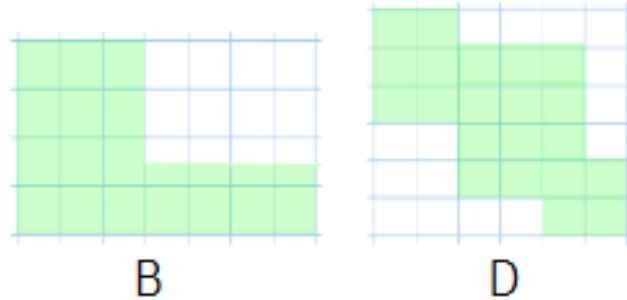
Spicy Red Chilli

Shape C has been deleted.

Area C > Area B

Area C < Area D

Can you draw what shape C could look like?



Shape A is missing too.

- It has the smallest area.
- It is symmetrical.

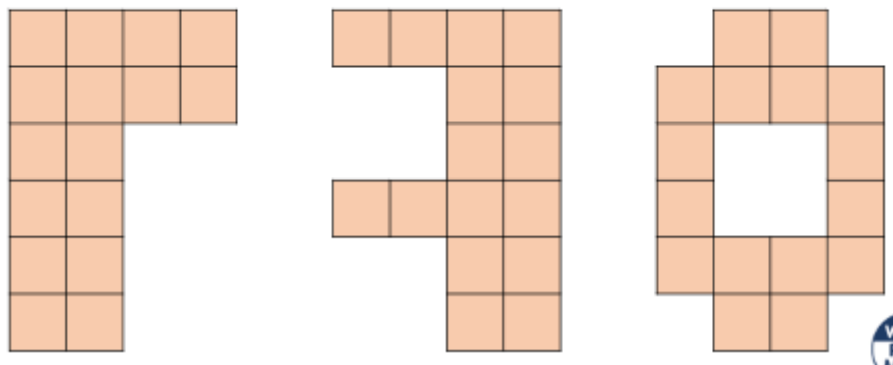
Can you draw what it could look like?

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Answers

False

If the number of squares remains the same
then the area remains the same.



The area increases
by 2 each time.

The next shape
will have an area
of 9.

The 6th shape will
have an area of 13.

The answers are
all odd numbers
and increase by 2
each time.

Shape B has an
area of 18 squares.

Shape D has an
area of 21 squares.

So Shape C can
be any shape that
has an area
between 18 and 21
squares.

Shape A must
have area less
than 18 squares,
but can be any
symmetrical
design e.g. a 4 by
4 square.