Mathematics

Quadratic Contexts

Mrs Buckmire



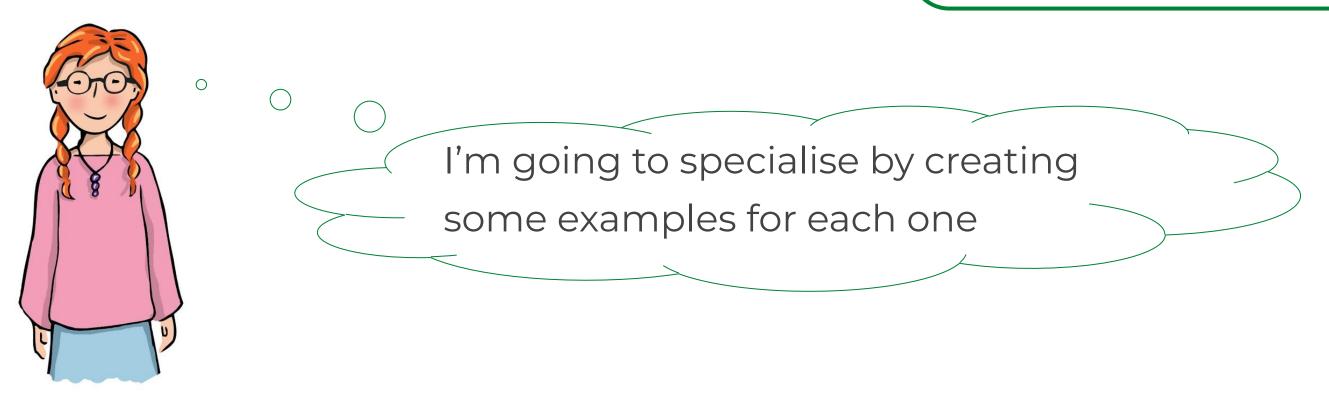
Try this

Compare these two situations.

What's the same and what's different?

I think of an integer. I multiply it by the next consecutive integer.

area of the rectangle



A rectangle has length 1 cm longer than its width. I find the



Independent task

1. Annabel is x years old.

Her friend Rosie is 2 years older than Annabel.

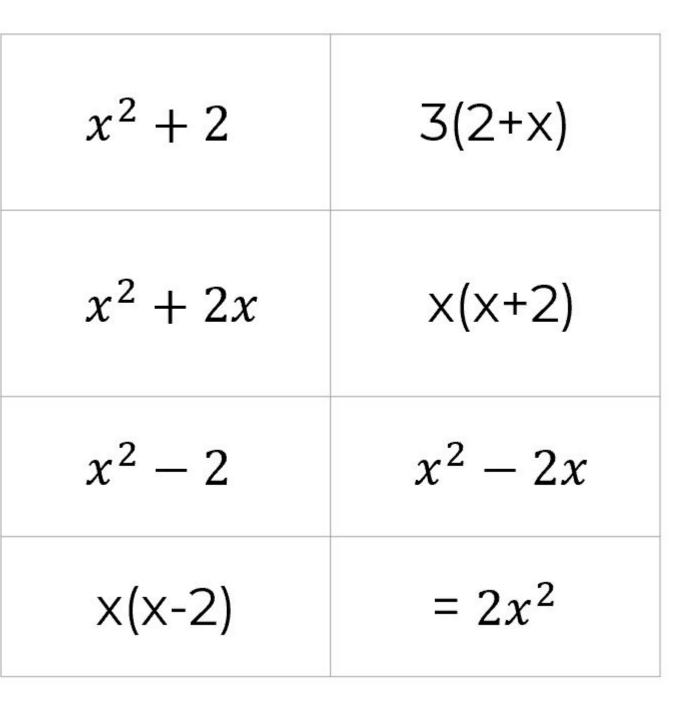
I find the product of their ages.

Which expressions match this situation?

2. A rectangular garden is 2m shorter than it is wide.

I find the area of the field.

Which expressions match this situation?





Explore

A square is cut out of a 9 cm x 4 cm rectangle.

- Form an expression to describe the area of the resulting shape.
- Are there different ways to find this expression?
- Graph it
- What is the maximum and minimum area?

