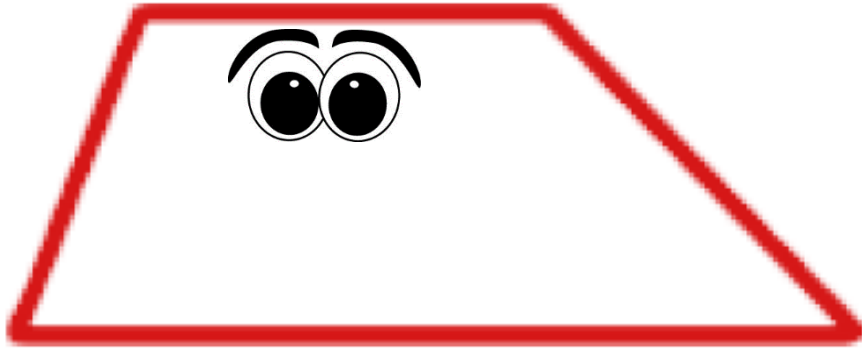# Trapezium

Qualifications:
- I have **one pair** of **parallel** sides.

A bit more about me:
None of my sides have to be the same length.
I don't need any lines of symmetry.
None of my angles have to be the same.

I wish I had...
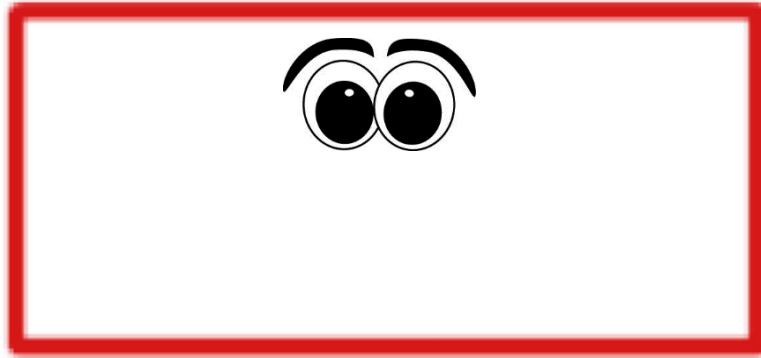*Another* pair of parallel sides, so I could be a parallelogram.

I sometimes look like...

I'm sometimes called...
A *trapezoid* (but only in America).

Rectangle

Qualifications:
- I have **two pairs** of **parallel** sides.
- **All** of my angles are **right angles** (90°).
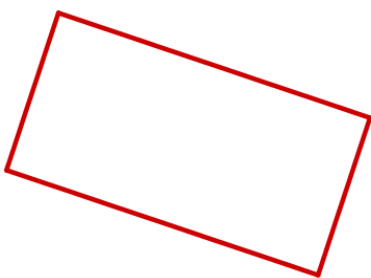
A bit more about me:

Opposite sides are always the same length.

I have two lines of symmetry (vertical and horizontal)

I wish I had…

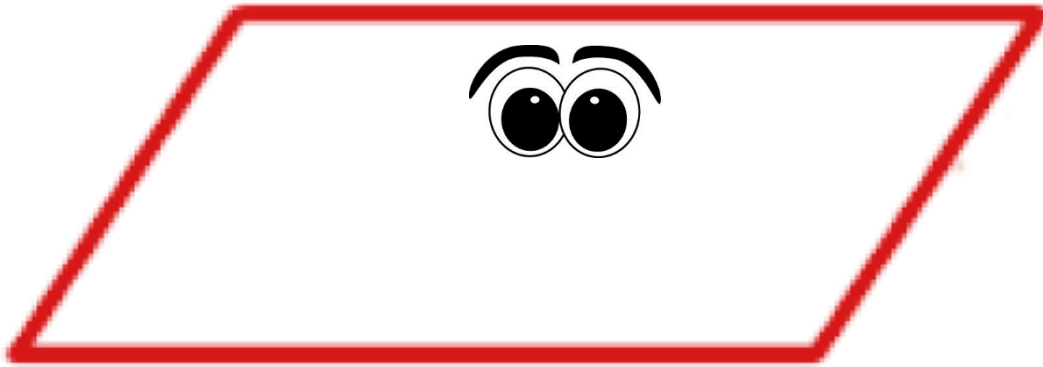*All* of my sides the same length, so I could be a square.

I sometimes look like…

I'm sometimes called…

An *oblong* (but only if I'm definitely not a square).

Parallelogram

Qualifications:
- I have **two pairs** of **parallel** sides.

A bit more about me:

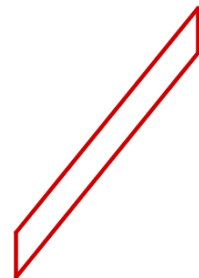*Opposite sides are always the same length.*
Opposite angles are the same size (two acute, two obtuse).
I don't have any lines of symmetry.

I wish I had…

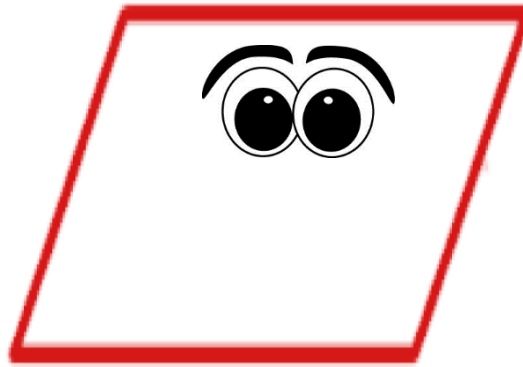*All* of my sides the same length, so I could be a rhombus.

I sometimes look like…

I'm sometimes called…
A *slanted rectangle*.

Rhombus

Qualifications:
- I have **two pairs** of **parallel** sides.
- **All** my sides are the **same length**.

A bit more about me:
Opposite angles are the same size (two acute, two obtuse).
I have two (diagonal) lines of symmetry.

I wish I had…
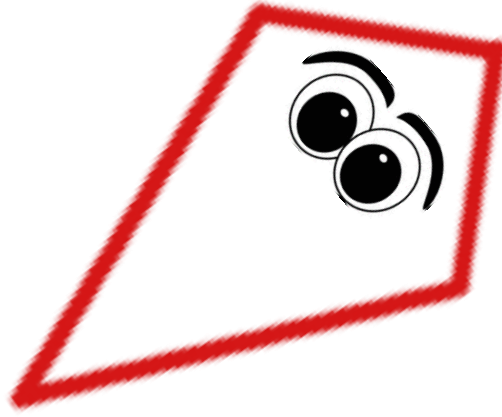*All* of my angles 90°, so I could be a square.

I sometimes look like…

I'm sometimes called…
A *slanted square* (or, if I turn a certain way, a *diamond*).

Kite

Qualifications:
- I have **two pairs** of **equal** sides (next to each other).
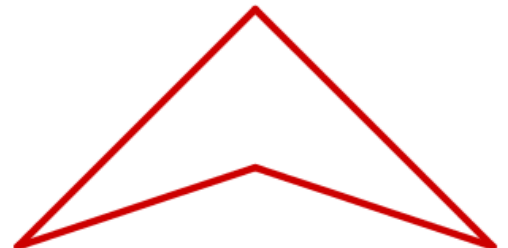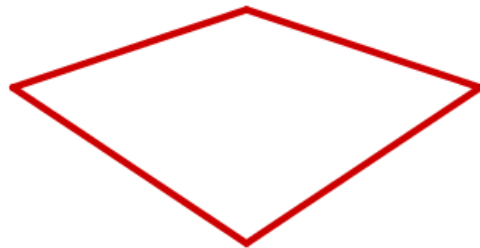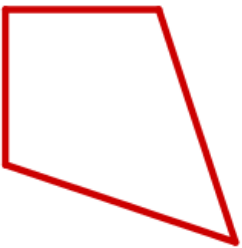
A bit more about me:
I don't need any parallel sides.
I have one line of symmetry (so two angles are equal).

I wish I had...
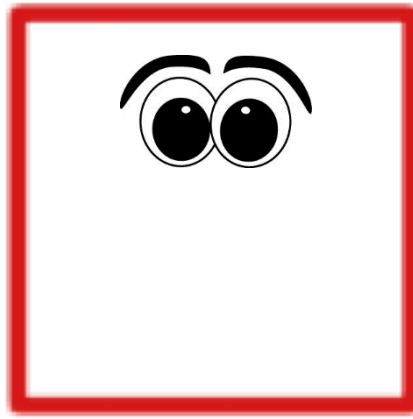*All* of my sides equal, so I could be a rhombus.

I sometimes look like...

I'm sometimes called...
An *arrowhead* (but only if I have a reflex angle).

Square

Qualifications:
- **All** my sides are the **same length**.
- **All** of my angles are **right angles** (90°).
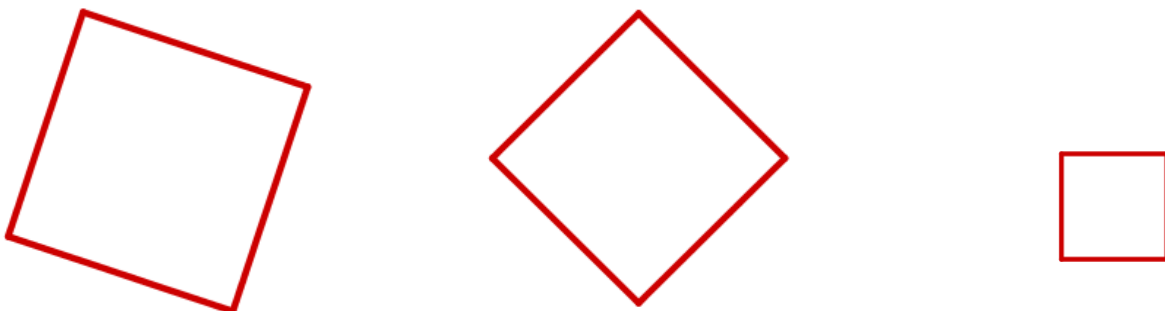
A bit more about me:
Both pairs of opposite sides are parallel.
I have four lines of symmetry.

I wish I had…
Three dimensions. If I could be a 3D shape I'd be a cube.

I sometimes look like…

I'm sometimes called…
A *regular polygon* (and, if I balance on a corner, a *diamond*).