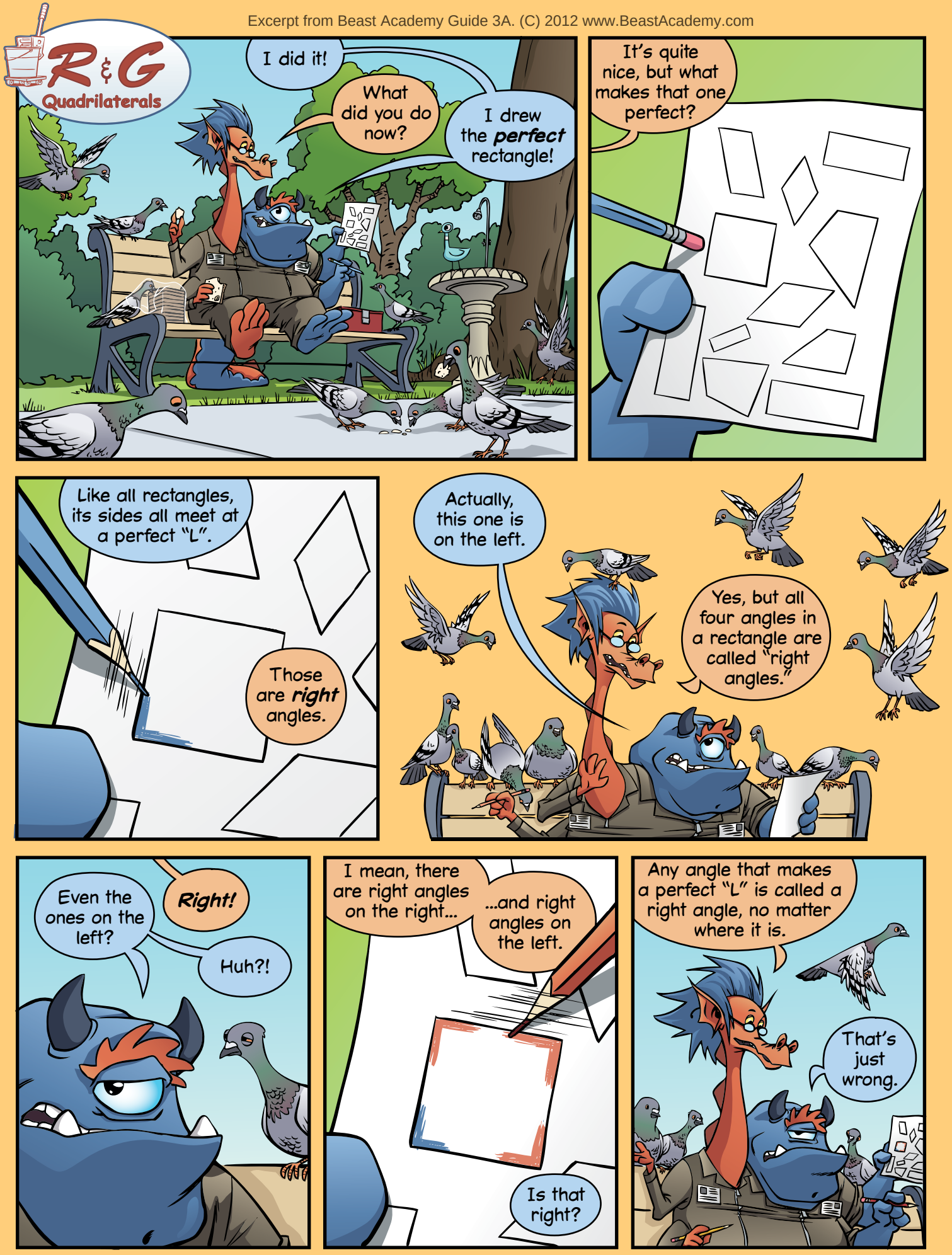
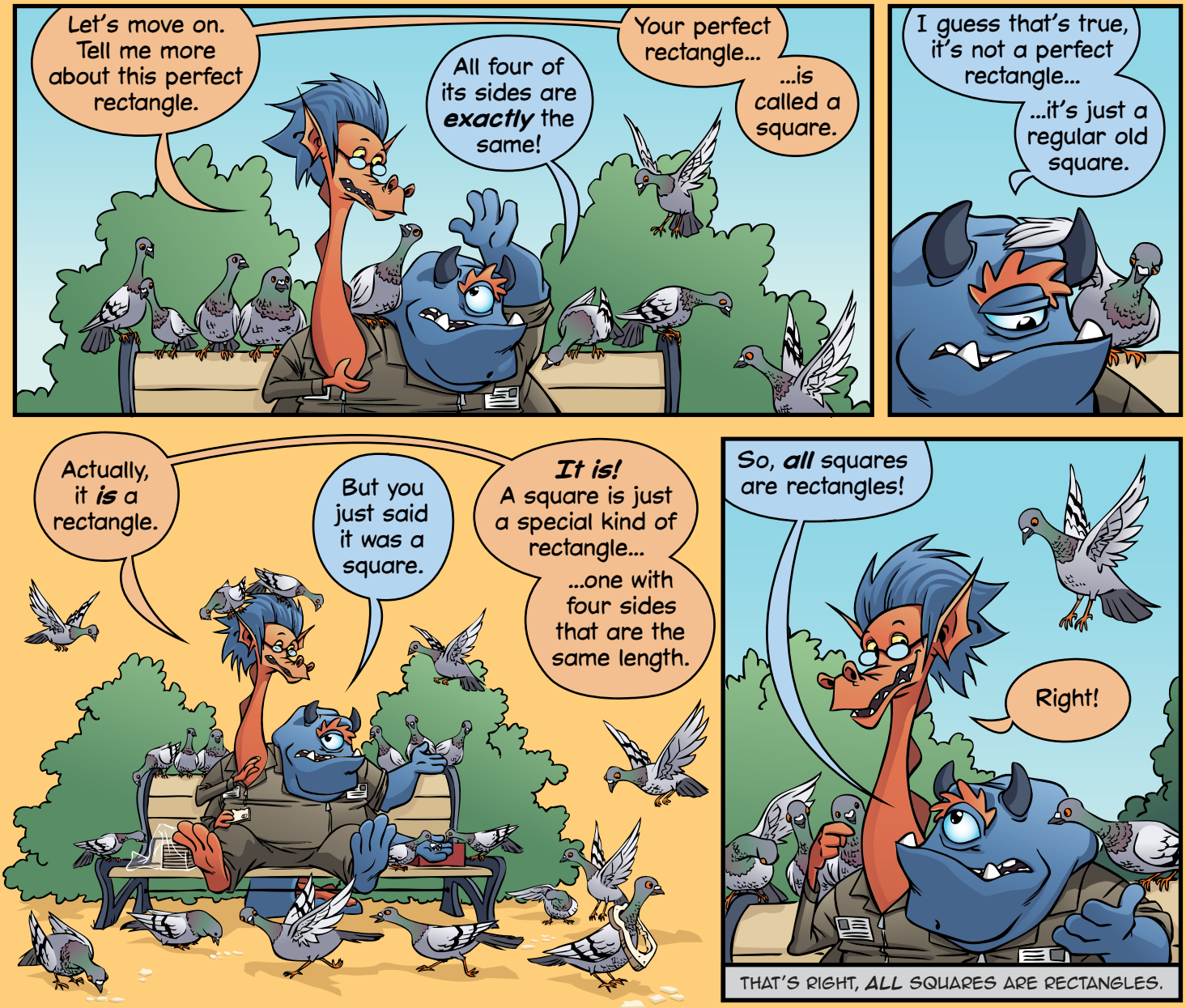
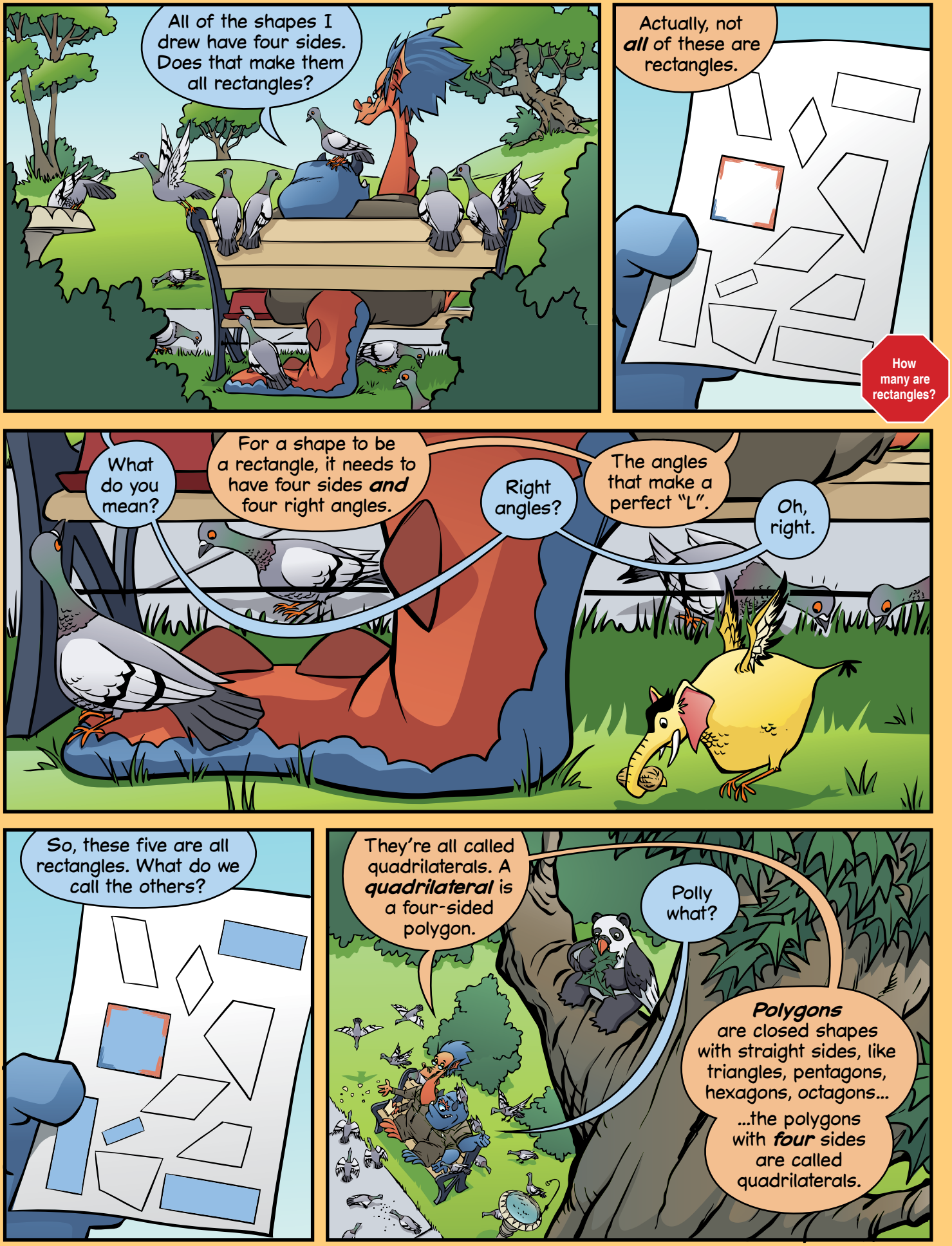
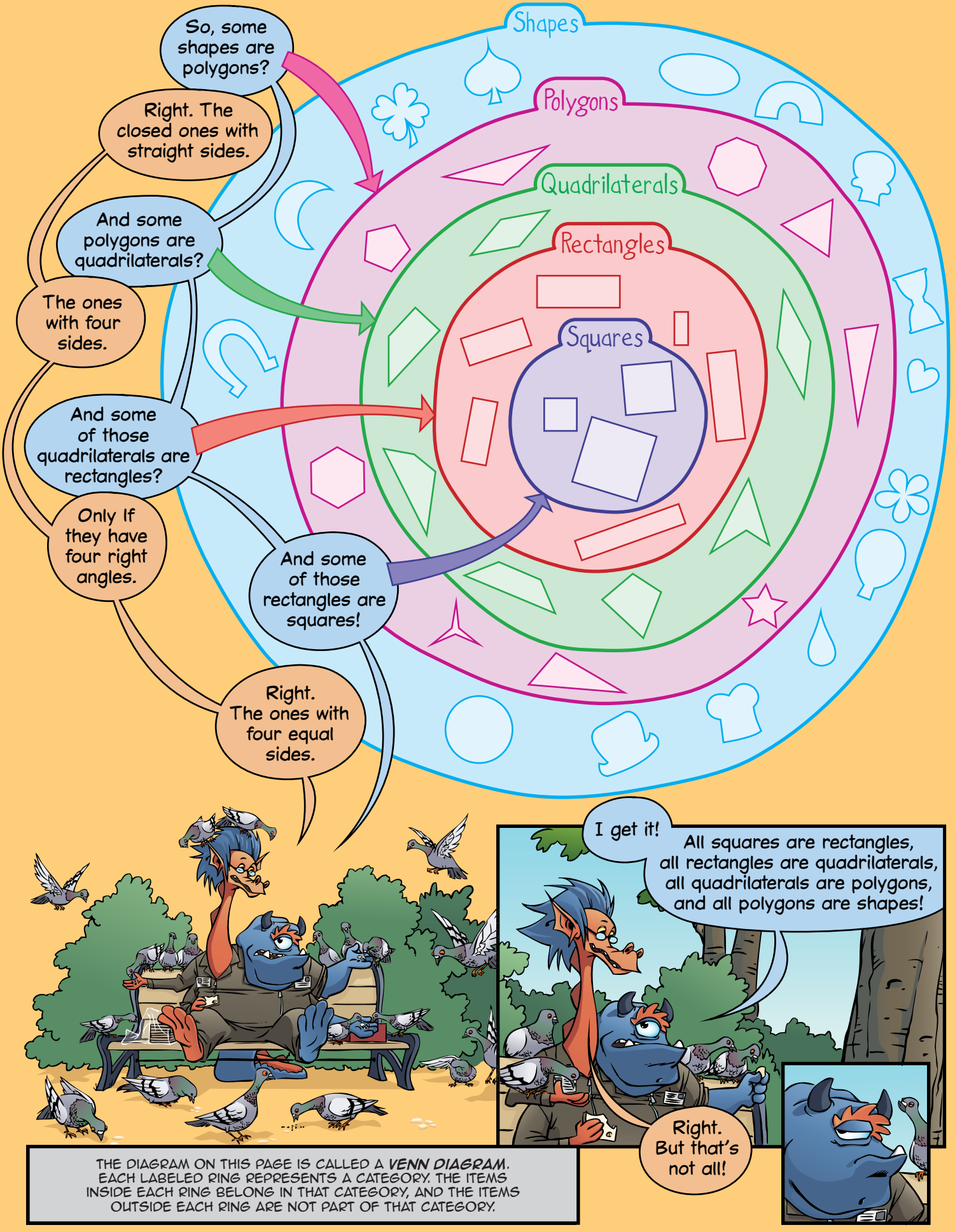

R&G
Quadrilaterals
I did it!
What did you do now?
I drew the perfect rectangle!
It's quite nice, but what makes that one perfect?
Like all rectangles, its sides all meet at a perfect "L".
Those are right angles.
Actually, this one is on the left.
Yes, but all four angles in a rectangle are called "right angles."
Even the ones on the left?
Right!
Huh?!
I mean, there are right angles on the right...
...and right angles on the left.
Is that right?
Any angle that makes a perfect "L" is called a right angle, no matter where it is.
That's just wrong.


Let's move on. Tell me more about this perfect rectangle.
All four of its sides are exactly the same!
Your perfect rectangle...
...is called a square.
I guess that's true, it's not a perfect rectangle...
...it's just a regular old square.
Actually, it is a rectangle.
But you just said it was a square.
It is! A square is just a special kind of rectangle...
...one with four sides that are the same length.
So, all squares are rectangles!
Right!
THAT'S RIGHT, ALL SQUARES ARE RECTANGLES.
The same way that all pigeons are birds, and all birds are animals... all squares are rectangles.
Are all rectangles squares?
Nope. But some are, just like only some animals are birds, and only some birds are pigeons. Most rectangles don't have four sides that are the same.
But the ones that do are called squares!


All of the shapes I drew have four sides. Does that make them all rectangles?
Actually, not *all* of these are rectangles.
How many are rectangles?
What do you mean?
For a shape to be a rectangle, it needs to have four sides *and* four right angles.
Right angles?
The angles that make a perfect "L".
Oh, right.
So, these five are all rectangles. What do we call the others?
They're all called quadrilaterals. A *quadrilateral* is a four-sided polygon.
Polly what?
Polygons are closed shapes with straight sides, like triangles, pentagons, hexagons, octagons...
...the polygons with ***four*** sides are called quadrilaterals.

Excerpt from Beast Academy Guide 3A. (C) 2012 www.BeastAcademy.com



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