

A Game of Darts, Vader?

Dart Vader and his friend Luke Walker agree to play a game of darts using a dart board as shown below. The board is made up of all seven shapes of a Tangram puzzle and is 1 foot on each side.

Dart tells Luke, "If a dart lands on a large triangle, then one point is scored. If it lands on a square, a parallelogram, or the medium-size triangle, then two points are scored. Three points are scored if the dart lands on one of the small triangles."

Is this a fair game? Why or why not?
If the game is not fair, how could you make it fair?

