



Properties of Shapes part 3

Whether you are a parent, teacher or home school educator, we've compiled examples of activities, games and puzzles which can be used to support the learning of shape and space.

These examples are taken from the 'Properties of Shapes' packs found in our SMILE resource collection. The mathematical demand increases as you work through the packs. There are lots more ideas in the complete packs, which can be downloaded at https://www.stem.org.uk/rxzfd

Answers to cards can be found at https://www.stem.org.uk/rxxo5

Smile 1698

Identikit

You might find it helpful to work with a partner.

1

Describe a circle without using the words circle or round. When you are satisfied with your description, write it down.

2

Choose at least 3 other items from the list below. Write out a description for each item on a separate piece of paper.

- (a) cube
- (b) square
- (c) sphere
- (d) parallel
- (e) tessellation

3

Give your descriptions to someone else. Can she identify what you have described?





YES

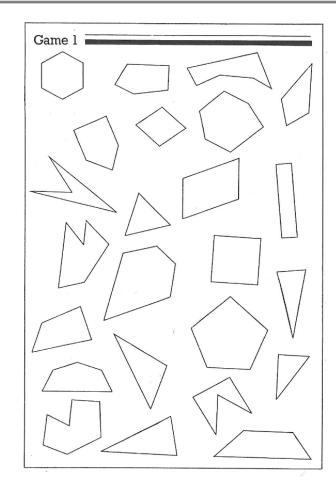
NO

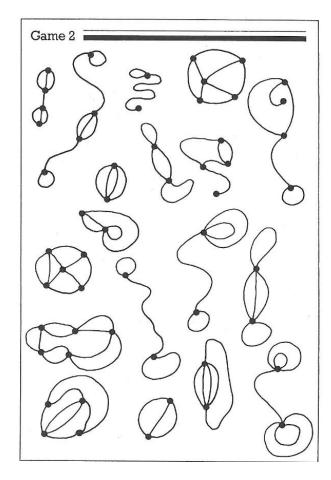
A • GAME • FOR • 2 • OR • MORE • PLAYERS

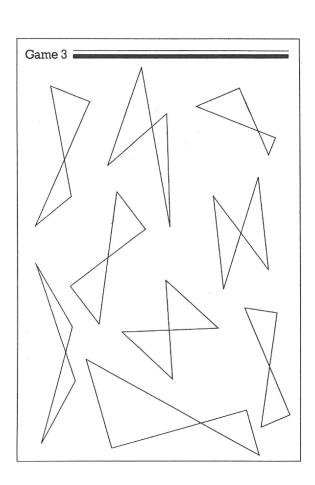
This card contains three separate boards. Decide which board to use.

One player secretly chooses one of the diagrams on that board. The other players must then try to work out which diagram was chosen by asking questions.

Players may only ask questions which can be answered YES or NO. Questions like "Is this the right one?" are not allowed. Try to ask as few questions as possible.











Smile 1843

Investigate

how many

right-angles

other

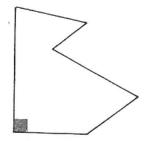
bollakour

can have.

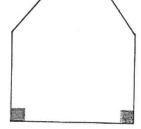
Polygons and Right Angles

A hexagon has 6 sides.

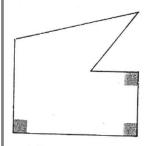
It can have ...



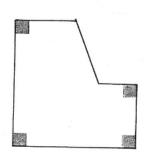
1 right angle ...



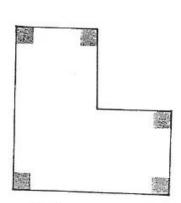
or 2 right angles ...



or 3 right angles ...



or 4 right angles ...



or 5 right angles ...

A hexagon cannot have 6 right angles Why?





Smile Worksheet 1795

Identical halves

Show how each one can be cut into two identical pieces.

