

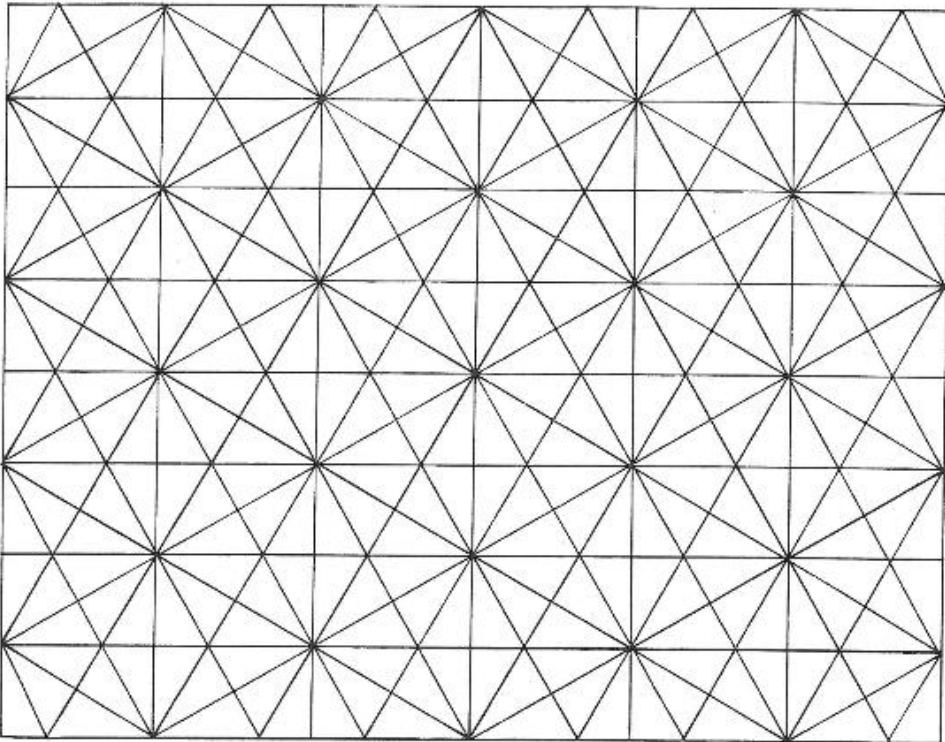
Properties of Shapes part 2

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 Worksheet 1828



Find the Shape

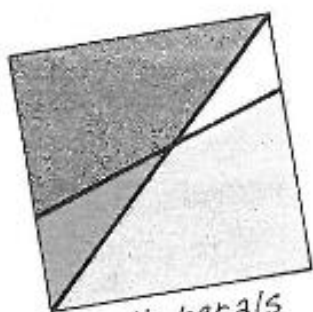
Can you find and colour in these shapes?

- Rectangle
- Triangle with all sides equal
- Triangle with 2 sides equal
- Triangle with no sides equal
- Right angled triangle
- Hexagon
- Kite
- Rhombus (diamond)
- Parallelogram
- Pentagon
- Octagon

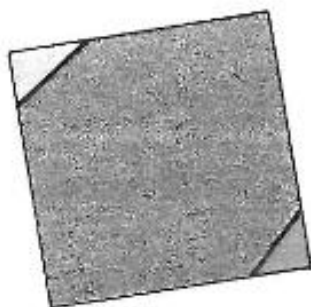
Did you find any other shapes?

Smile 1592

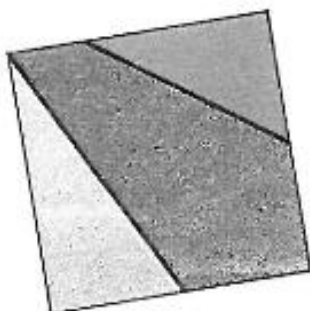
You will need some copies of worksheet 1592A

Two Cuts Investigation

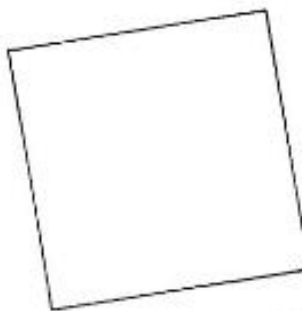
2 quadrilaterals
2 triangles



1 hexagon
2 triangles



2 triangles
1 pentagon

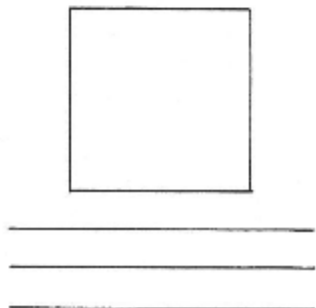
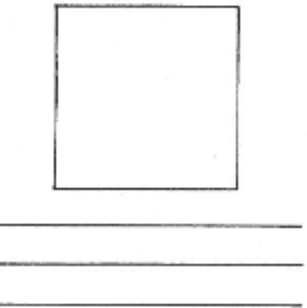
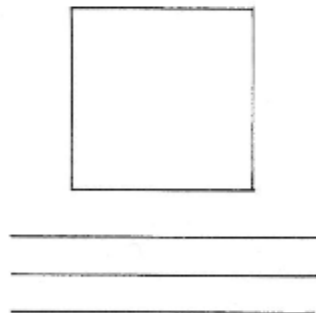
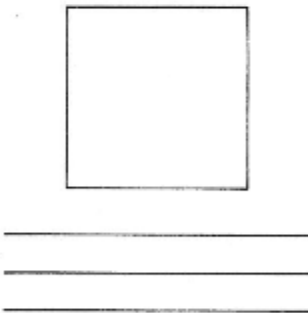
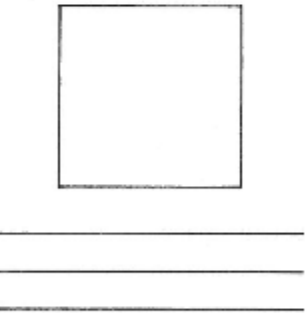
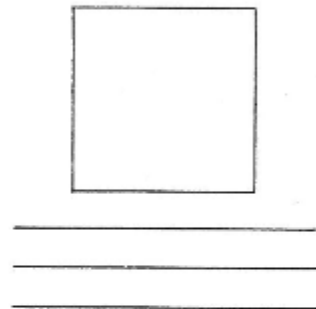
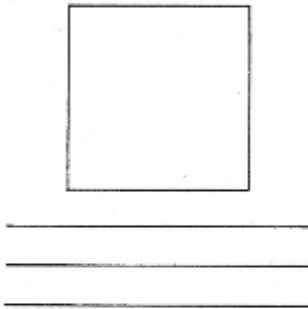
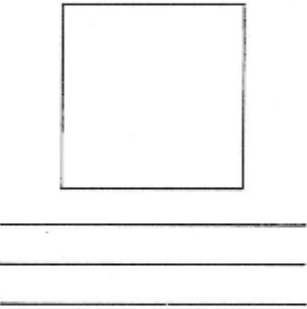
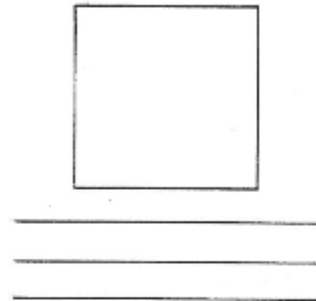
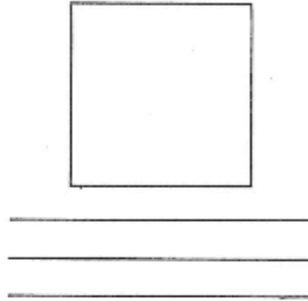
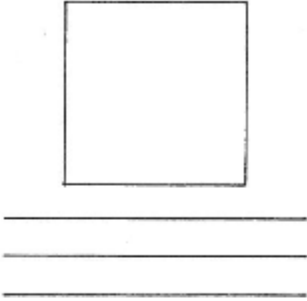


Using 2 cuts on a square, what shapes can you make?

Record your work on copies of the worksheet.

Two Cuts Investigation

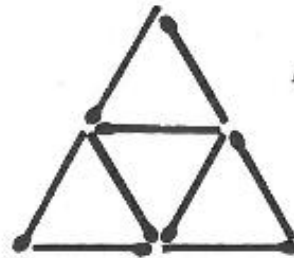
Smile worksheet 1592 A



smile
0131

You will need: 15 matches

MATCHSTICK PUZZLES

Puzzle 1

Arrange 9 matches like this.

Remove 4 matches to leave 2 equilateral triangles.

Puzzle 2

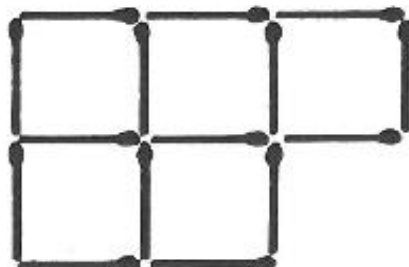
Start with the same pattern.

Remove 3 matches to leave 2 equilateral triangles.

Puzzle 3

Start with the same pattern again.

Remove 2 matches to leave 2 equilateral triangles.

Puzzle 4

Arrange 15 matches like this.

Remove 3 matches to leave 3 squares (no loose ends!).

Draw all your answers.