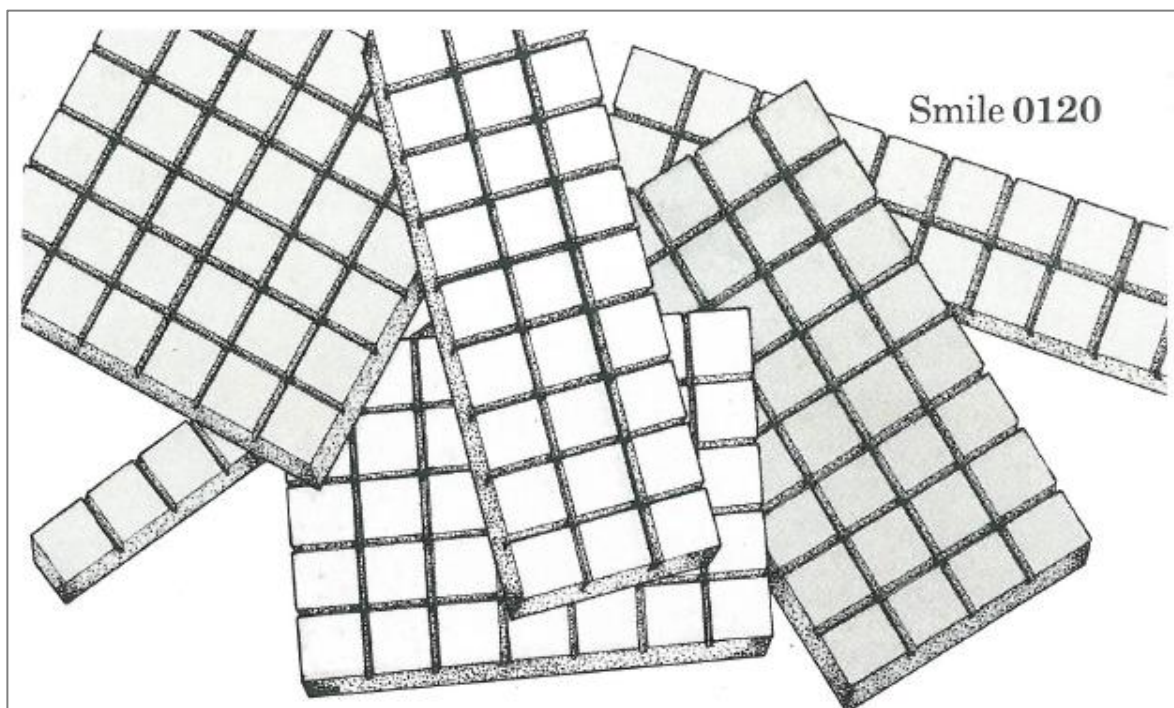


Area and Perimeter

Here are some examples of activities, games or puzzles which can be used to support mathematics learning.

These examples are taken from the Area and Perimeter packs. There are three packs in this collection. The mathematical demand increases as you work through the packs. The complete packs can be downloaded at <https://www.stem.org.uk/rxzek>

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



Chocolate Areas

These 6 bars of chocolate all have the same thickness.

Each bar is rectangular and has a perimeter of 24cm.

Do you think the 6 bars have the same amount of chocolate?

Which bar of chocolate would you choose?

If you had to choose the largest rectangle with a perimeter of 20cm...

... what shape would you choose?

... what would be the length of its sides?

... what area would it be?

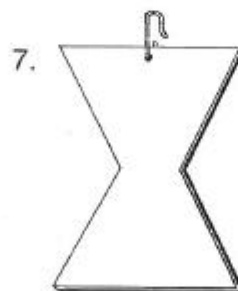
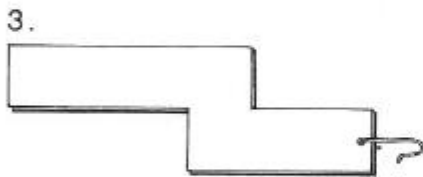
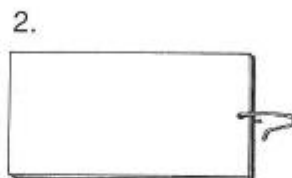
Cut out or draw some rectangles to check your answers.

Silver earrings

A large part of the cost of making silver jewellery is the metal itself.



If this square of sheet silver costs £1 how much would these cost?

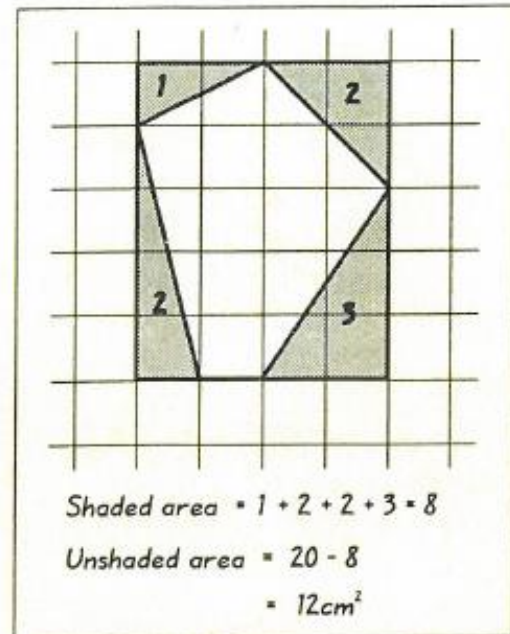
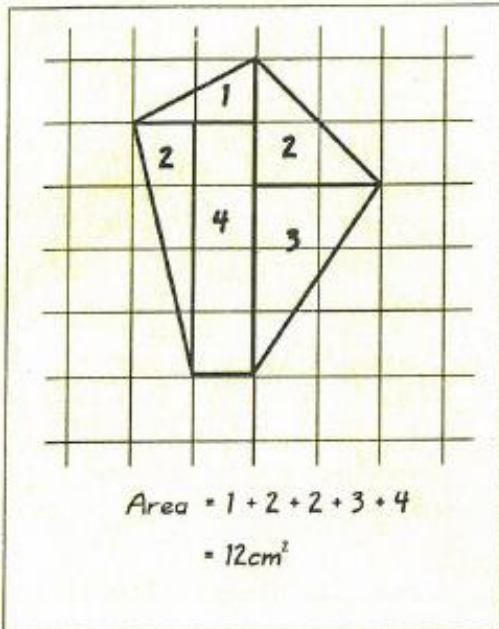


You may like to invent some more...
...give the cost of each one.

POLYGON AREAS

Smile 2084

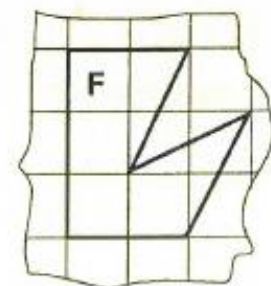
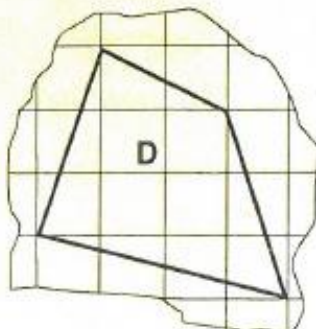
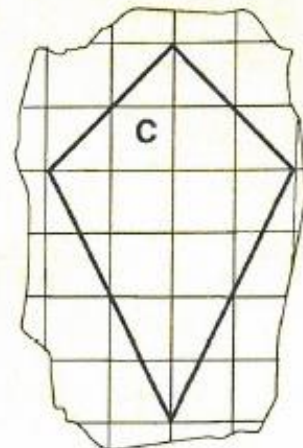
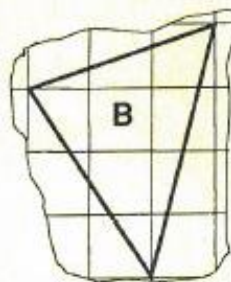
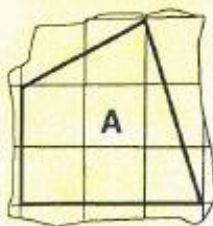
Here are two methods for finding the area of a polygon.



Turn over

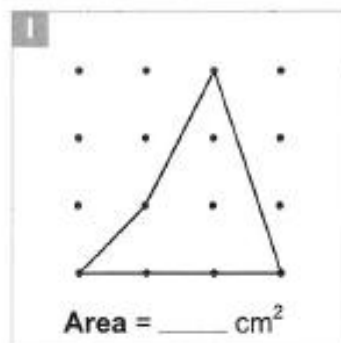
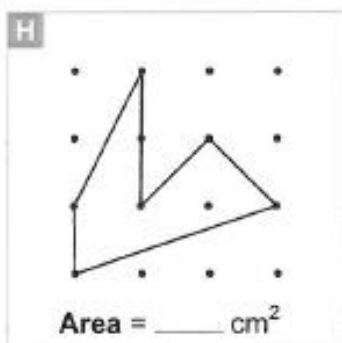
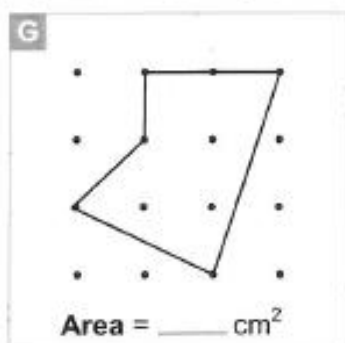
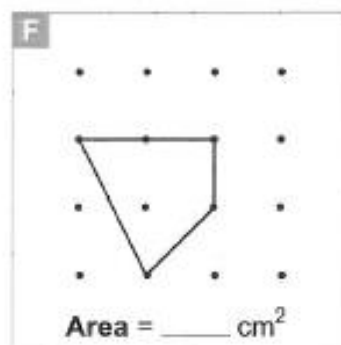
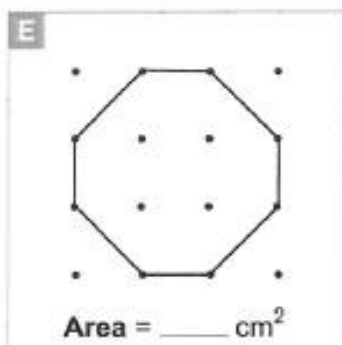
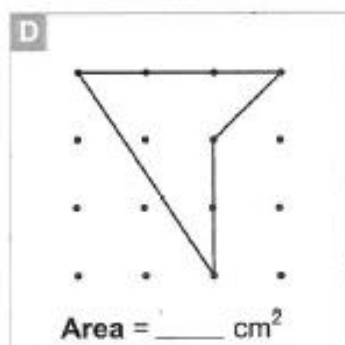
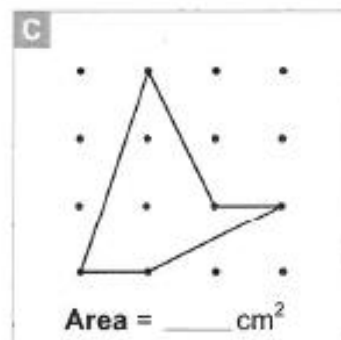
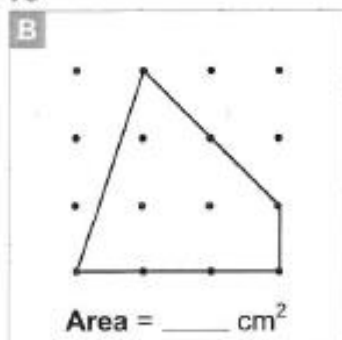
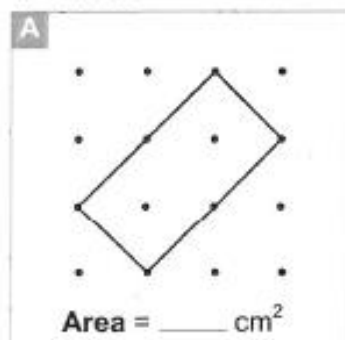
Copy these shapes on to squared paper.

Choose one of the methods or your own to find the areas of these shapes.



Areas of Polygons

1. Calculate the areas of the polygons below.



2. Sort the polygons in order of area, largest first.

3. Design 3 more polygons on the 4 x 4 grids below and find their area.

