Discussion Problems
Step 4: Area of Compound Shapes

Teaching note: For Q2, an A3 copy on card and scissors may be necessary.

National Curriculum Objectives:

Mathematics Year 5: (5M7b) Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes

About this resource:

This resource has been designed for pupils who understand the concepts within this step. It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

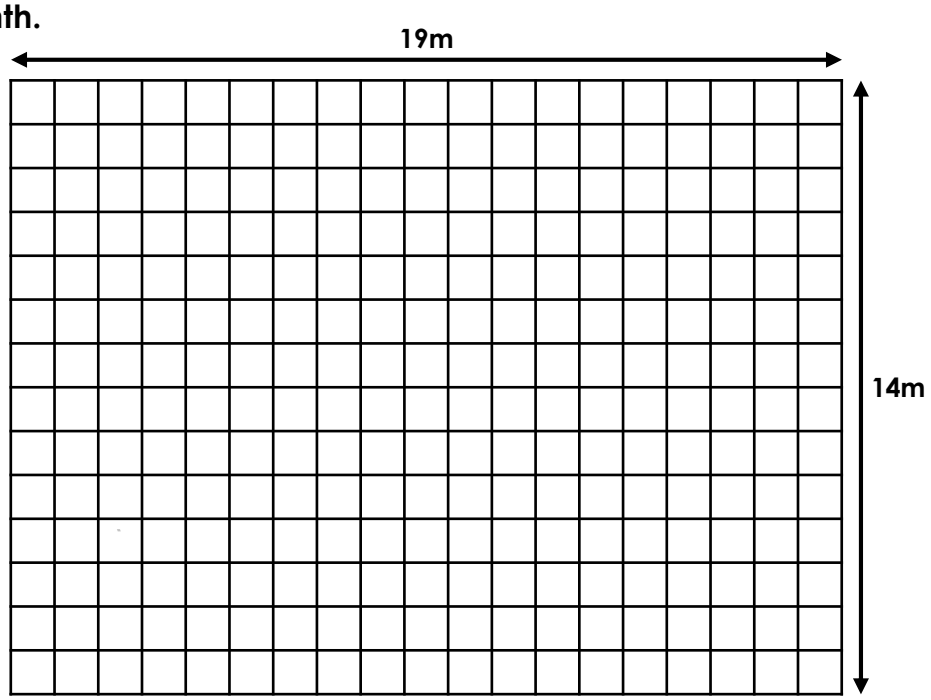
We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More Year 5 Perimeter and Area resources.

Did you like this resource? Don't forget to review it on our website.

Area of Compound Shapes

1. An action film is due to be released in May 2020. On the billboard, the year will be displayed below the month.

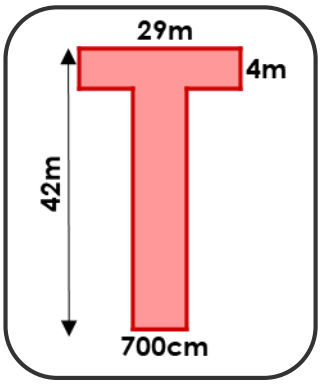


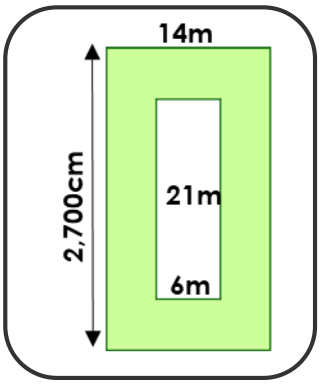
Not to scale

Explore what the combined area of the month and year could be.

DP

2. Explore the total area of each compound shape below.





Not to scale

Draw your own compound shape in the empty box and order the compound shapes according to area using the symbols below.

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DP

Area of Compound Shapes

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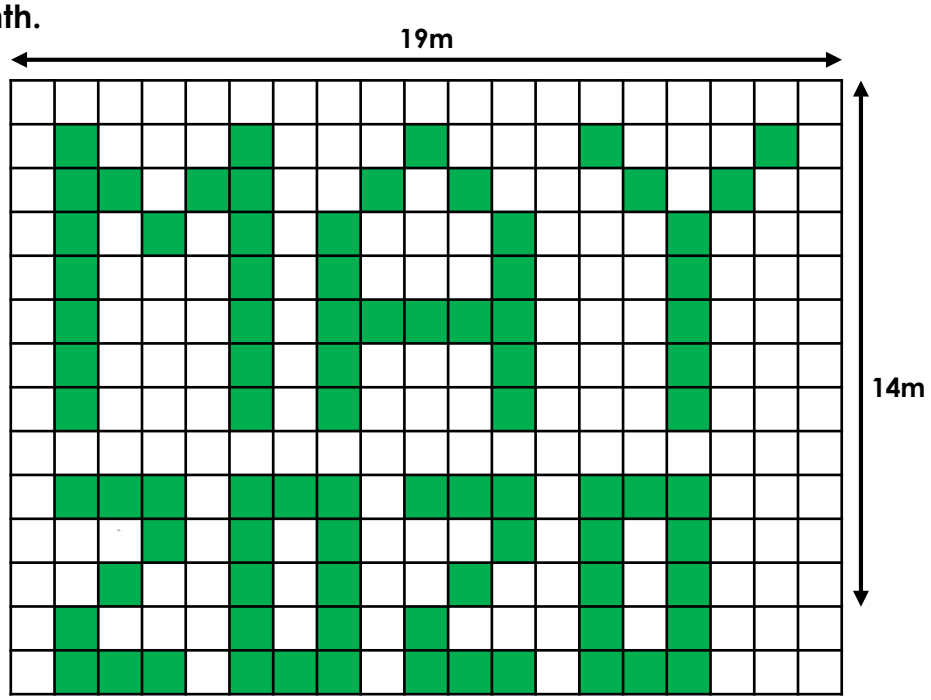


Not to scale

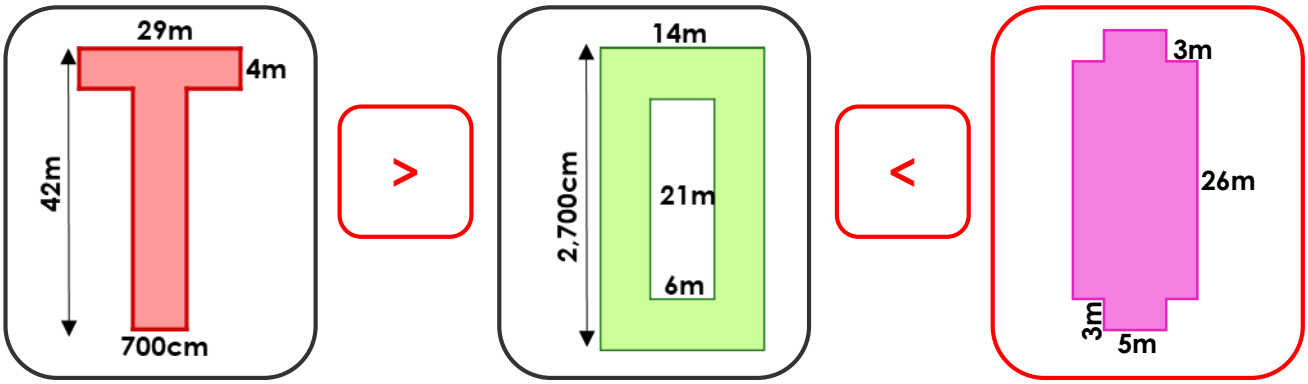
Explore what the combined area of the month and year could be.

Various answers, for example: 84m² (both the month and the year have an area of 42m²)

DP

2. Explore the total area of each compound shape below.

Various answers, for example: 382m² > 252m² < 316m²



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