

## Reasoning and Problem Solving – Area Consolidation – Year 4

1. Children's answers will vary. They may suggest Ewan is close to the definition as he suggests counting bricks.  
Explanations will vary, e.g. Area is a measurement of the amount of space on a flat surface.
2. A is  $57\text{cm}^2$ , B is  $80\text{cm}^2$ , C is  $64\text{cm}^2$ , D is  $48\text{cm}^2$
3. A is 2, B is 4, C is 3, D is 1
4. Options will include B and C, then either A or E. Children's answers will vary but D should be excluded as it is less than the  $50\text{cm}^2$  minimum area required for E.
5. Children's answers will vary dependant on their own design. Answer will be 10x area of their design or option A, plus £1440 (cost of B and C).
6. Children should shade or tick any 15 squares.
7. It will take 5 days in total to complete the design. Some children may answer 3 more days.