## **Boardworks Elementary School Math**



## Information



### Common core icons



This icon indicates a slide where the Standards for Mathematical Practice are being developed. Details of these are given in the Notes field.



Slides containing examples of mathematical modeling are marked with this stamp.



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This icon indicates an opportunity for discussion or group work.

### The Standards for Mathematical Practice outlined in the

Common Core State Standards for Mathematics describe varieties of expertise that mathematics educators at all levels should seek to develop in their students.

These are:

- 1) Make sense of problems and persevere in solving them.
- 2) Reason abstractly and quantitatively.
- 3) Construct viable arguments and critique the reasoning of others.
- 4) Model with mathematics.
- 5) Use appropriate tools strategically.
- 6) Attend to precision.
- 7) Look for and make use of structure.
- 8) Look for and express regularity in repeated reasoning.



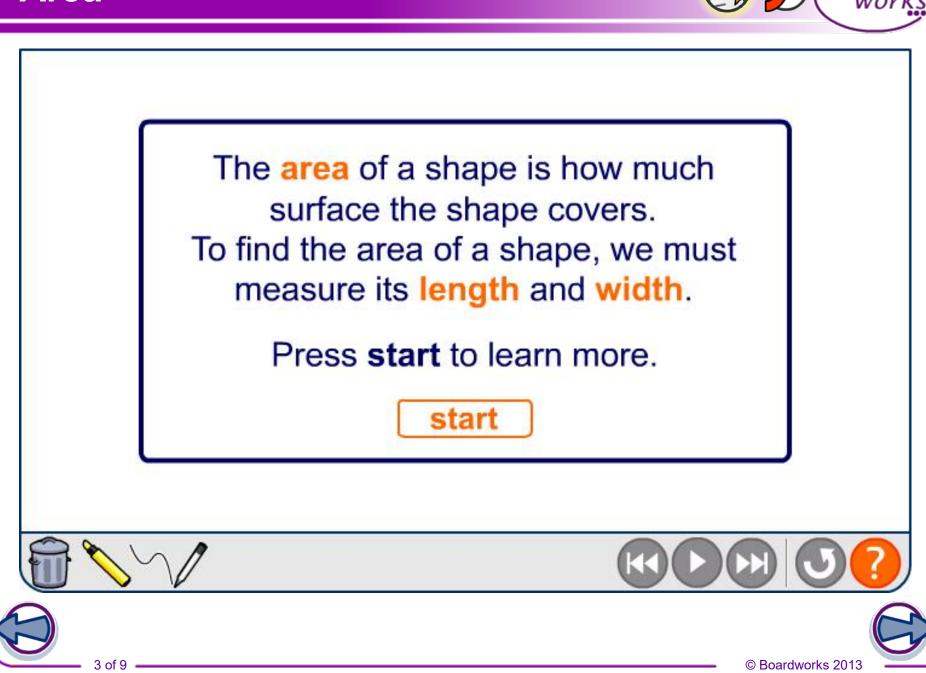
This icon indicates that the slide contains activities created in Flash. These activities are not editable.

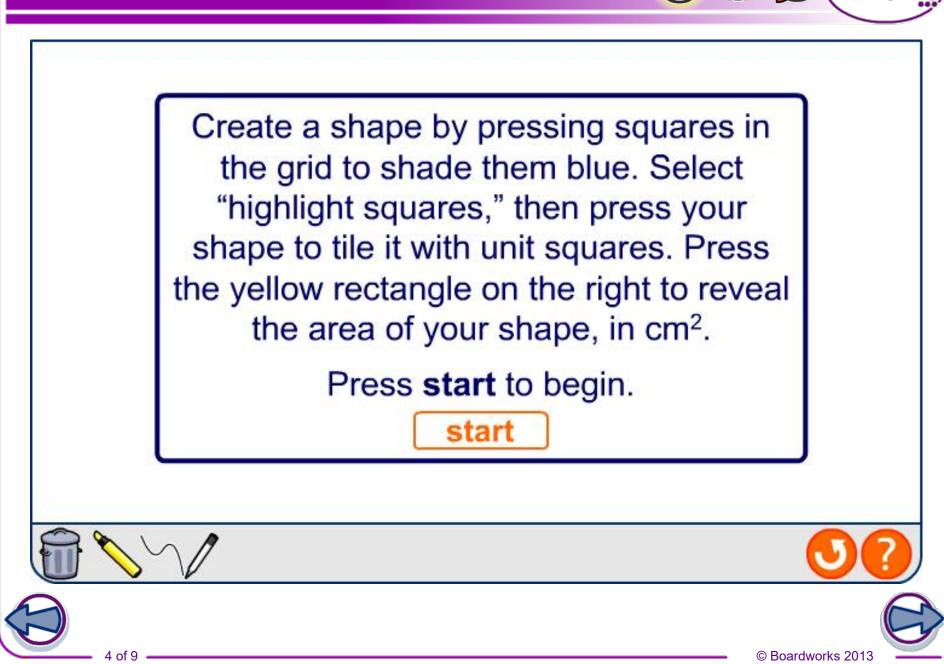


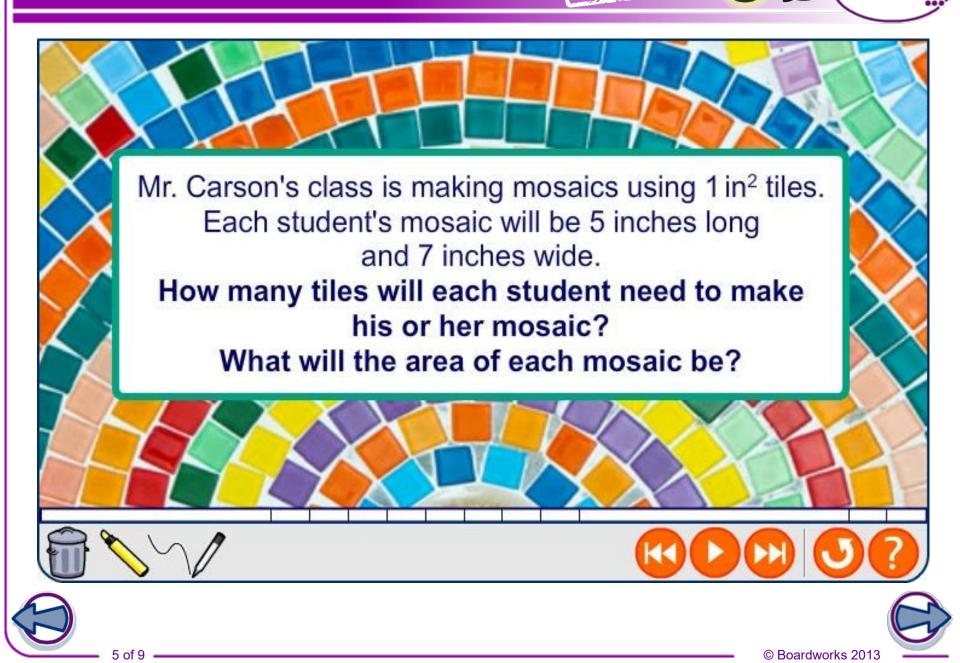
This icon indicates teacher's notes in the Notes field.



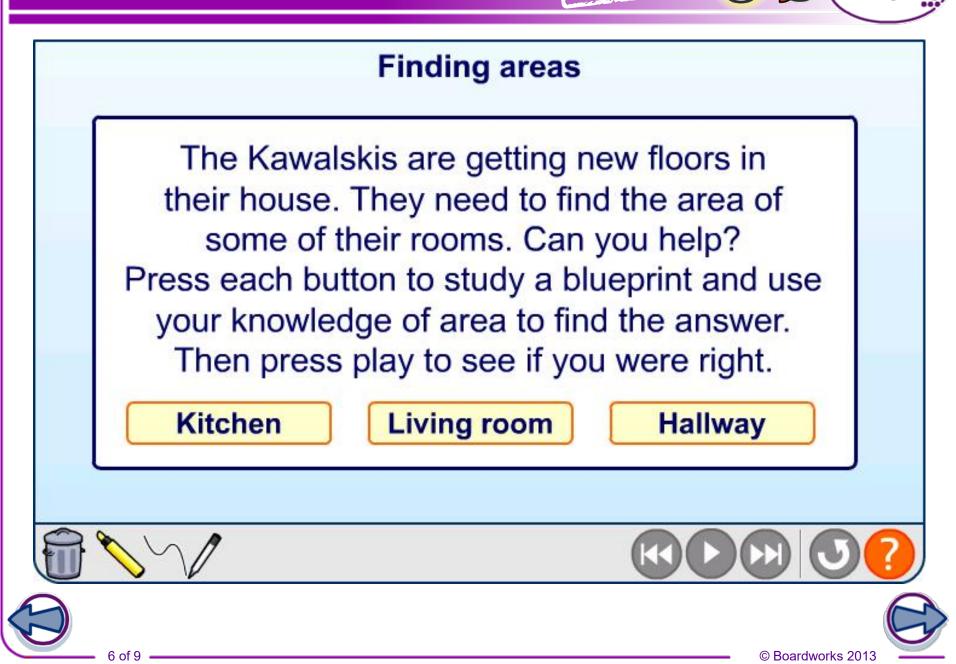
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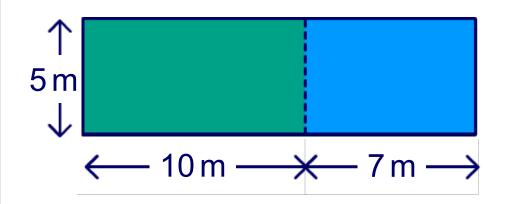
board



MODEL



We can decompose large numbers to make it easier to find the area of large shapes.



How could we use decomposition to find the area of this rectangle?

We can make 17 easier to work with by using expanded form: 10 + 7.

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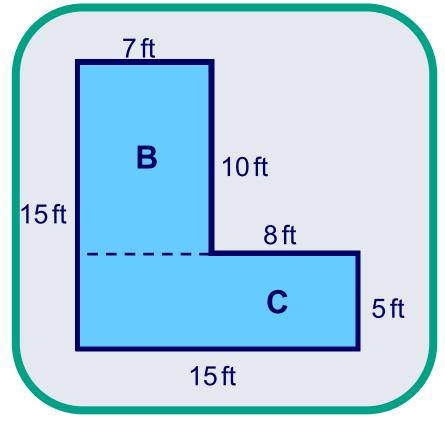
- Now we can find:  $(5 \times 10) + (5 \times 7)$ 
  - =(50) + (35)



 $= 85 \, m^2$ 



Sarah is buying carpet for her room. How can she find the area of the room so she knows how much carpet to buy?



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We can divide this shape into two rectangles. Either like this ... or like this. Label the rectangles B and C. Area B =  $10 \times 7 = 70 \, \text{ft}^2$ Area C =  $5 \times 15 = 75 \, \text{ft}^2$ Total area =  $70 + 75 = 145 \, \text{ft}^2$ Sarah should buy 145 ft<sup>2</sup> of carpet.

MODELING



board

# Try it out

