## Teaching notes

There are two ways this activity could be used. In both activities, students will need scrap paper to work on, or they could show all workings neatly in their books.

### **Option one**

Print all 13 question cards and photocopy onto A3 paper. Cut out each card, shuffle and put up on walls around the room or playground. Arrange students into small groups, giving each group an answer sheet, and send them to a random starting card. Students read the question and work out the solution, recording their answer on their sheet. They then hunt round the room for the card that contains that answer, which will give them a new question, and repeat until they end up back at their starting card.

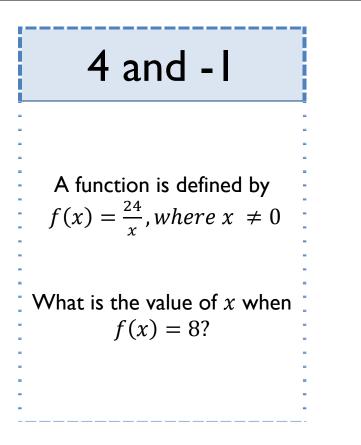
### **Option two**

Print the questions and cut out of A4 paper (you could get the pupils to cut them out as they are not given in the correct order). Students can work individually or in pairs to match up the questions with the correct solutions, creating a loop of dominoes.

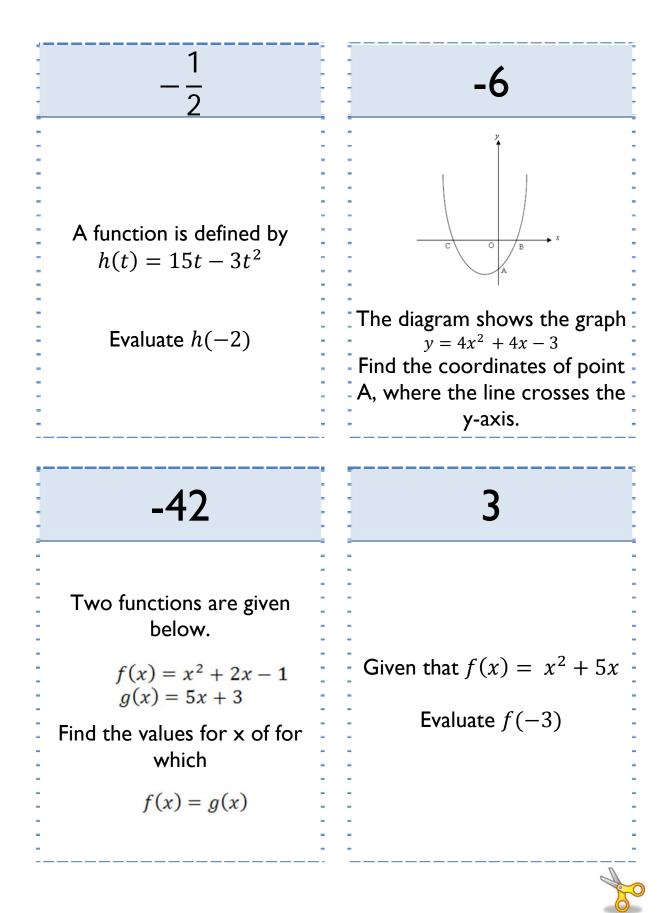
### Answers

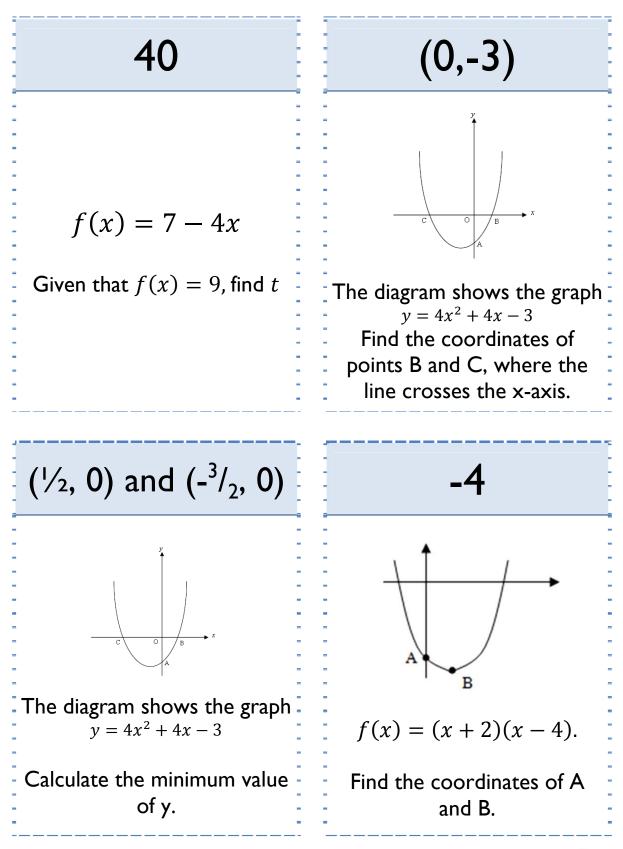
The order of cards should match up with these solutions:

 $3 \rightarrow -6 \rightarrow (0,3) \rightarrow (\frac{1}{2},0)$  and  $(-3/2,0) \rightarrow -4 \rightarrow (0,-8)$  and  $(1,-9) \rightarrow 9.5 \rightarrow (\frac{1}{2},0)$  and  $(-3,0) \rightarrow -2 \rightarrow 40 \rightarrow -\frac{1}{2} \rightarrow -42 \rightarrow 4$  and -1



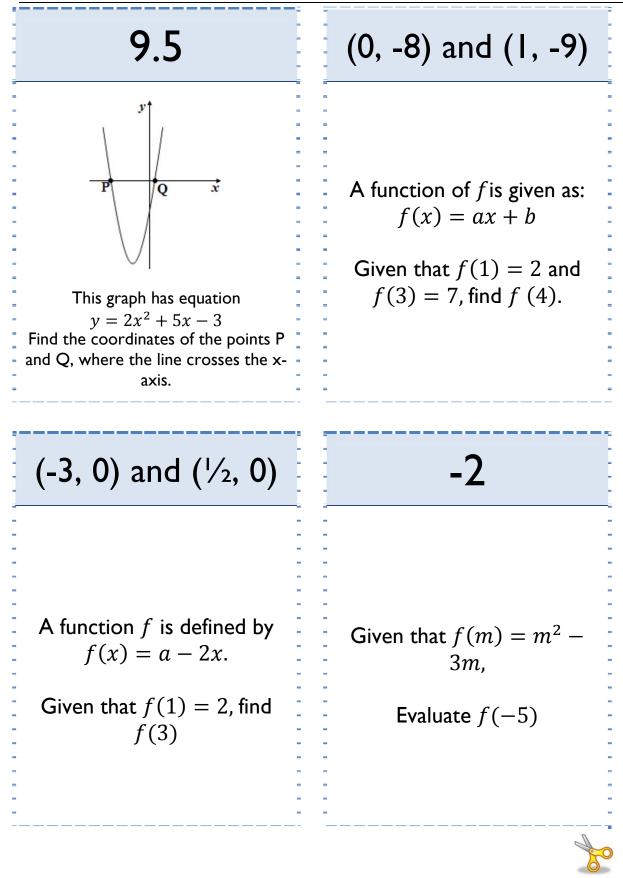












# Quadratic functions treasure hunt

Name: .....

