



# Place Value, Integers, Ordering and Rounding

## Age 11+ Level ★ Worksheet 3

### 1. Negative Dice

I have some strange dice: the faces show the numbers 1 to 6 as usual, except that the odd numbers are negative (i.e. -1, -3, -5 in place of 1, 3, 5).

If I throw two such dice, which of the following totals cannot be achieved?

- a) 3      b) 7      c) 8

*These problems are adapted from UKMT ([ukmt.org.uk](http://ukmt.org.uk)) and WMC ([competition.ac](http://competition.ac)) problems.*