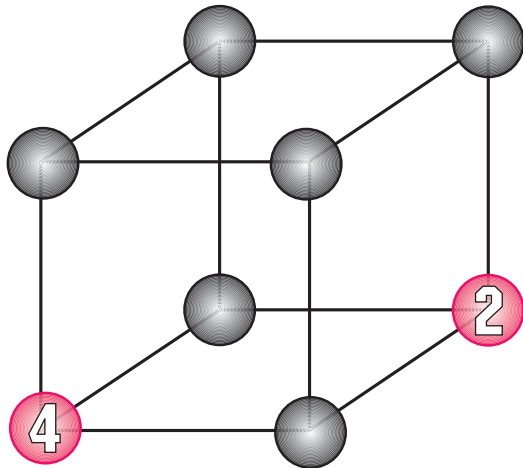


# Face Totals

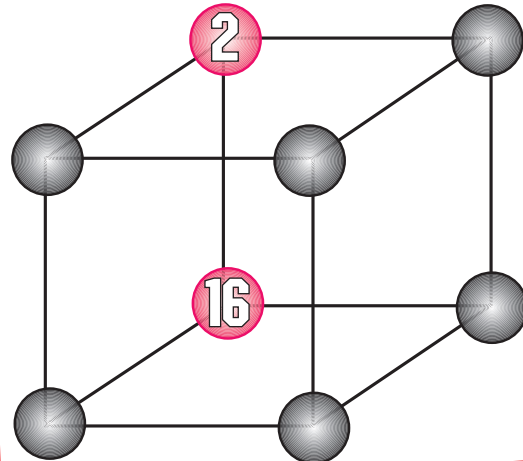
You need  a photocopy of the shapes

## Activity

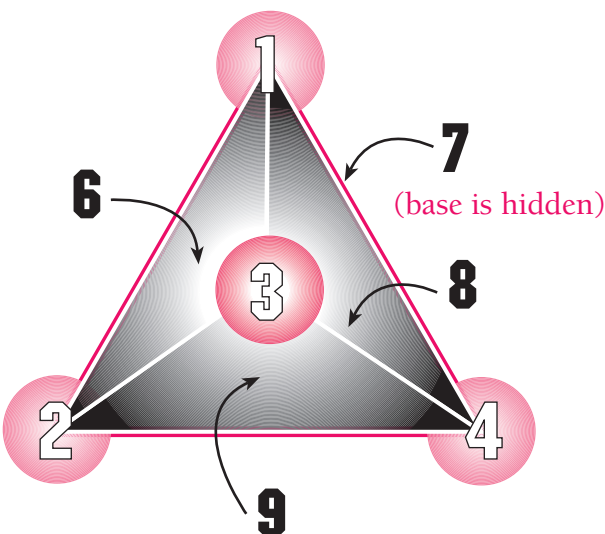
**1** The numbers 2 and 4 have been placed in two corners of the skeleton cube below. On your photocopied sheet, place the numbers 1 to 8 in the corner circles of the first cube. The circles in each square face must add up to 18.



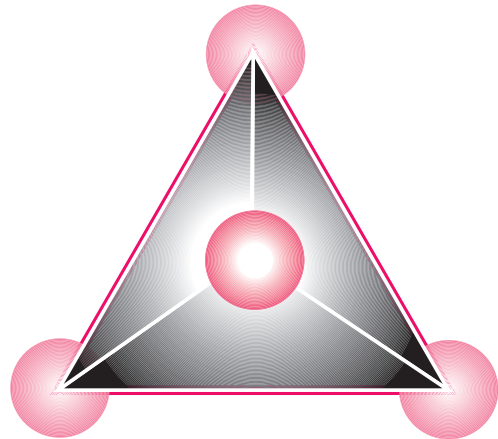
**2** Use the numbers 2, 4, 6, 8, 10, 12, 14, and 16 in the corner circles of the second cube on your sheet. The circles in each square face must add up to 36.



**3** This tetrahedron has face totals of 6, 7, 8, and 9.



a. Put different digits in each circle so that the face totals of the tetrahedron on your sheet are 8, 10, 11, and 13.



b. How many solutions are possible using 8, 10, 11, and 13 or 6, 7, 8, and 9 as the face totals?