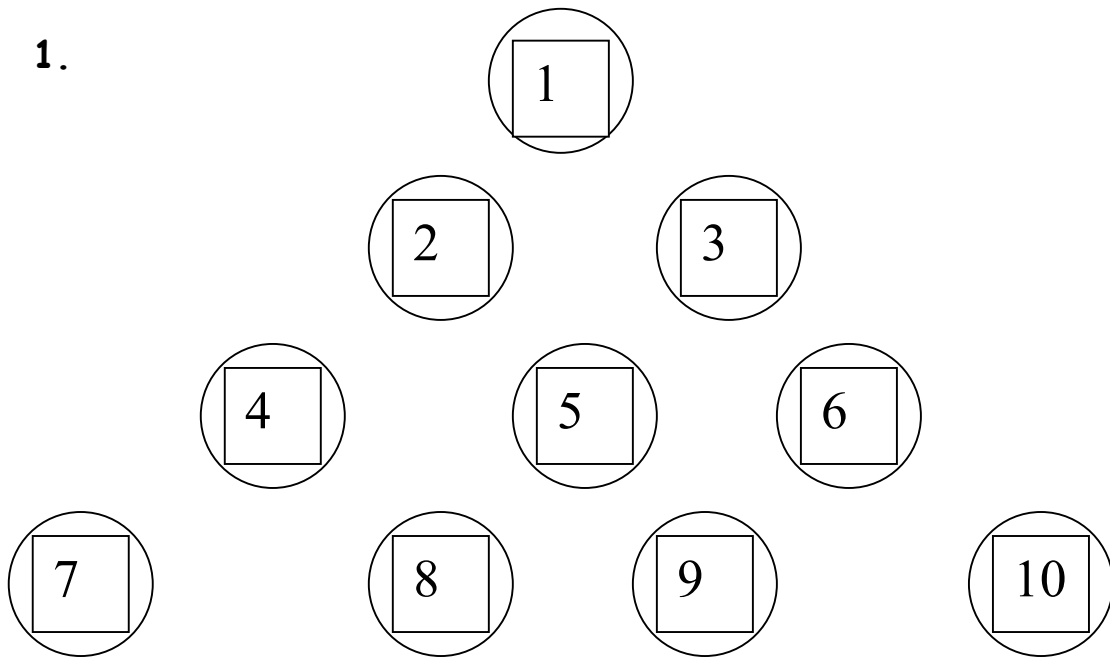


## Quizzes and puzzles

A range of good ideas to use now or when you want to change the focus in your lesson. Or set as homework for that week. These activities were suggested by Andrew Short of The Forest School, Horsham.

1.



Can you move three circles and turn the pyramid upside down?

2. Why is this calculation correct?

$$\begin{array}{r} 29 \\ - 1 \\ \hline 30 \end{array}$$

### 3. Magic Square


In the magic square the rows, columns and the diagonals all add up to the same figure. Use the numbers below to complete the square?

37, 38, 39, 40, 41, 42, 43, 44, 45

How did you do it?

Make up a magic square of your own.

### 4. Hole in one?

You are about to tee off at the 195-yard opening hole. Because of your fantastic golfing ability you are sure to get a hole in one, not only that - the ball will drop directly into the hole without hitting the ground once!

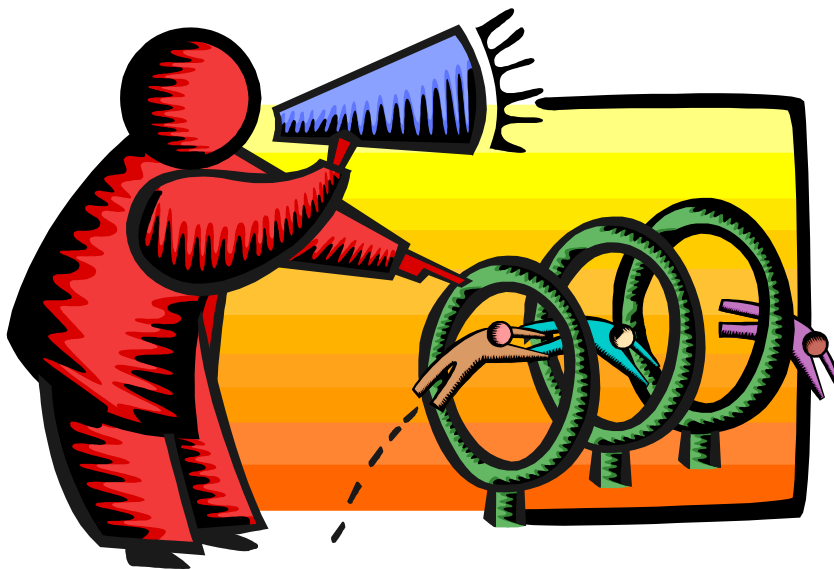
If your ball travels at 78 kilometres per hour, how long will it be, to the nearest second, from the moment you strike the ball until it lands in the hole?

# a puzzling sum

Add together:

- The number of cards in a pack (without jokers),
- The number of loaves in a baker's dozen,
- The number of balls in a snooker triangle
- The number of ounces in a pound
- The number of square inches in a square foot
- The number of pints in a gallon
- The number of square metres in a hectare

What is the total?



# Your target number is?

# 4

Using a 3 litre jug and a 5 litre Jug, can you get exactly 4 litres in the 5 litre jug assuming that you have the two jugs and unlimited supply of water?

Make up your own targets for another group to try.

Do you think you can make any amount from 5 and 3 litre jugs?

# Divide and Conquer

Divide the square into sections by drawing two straight lines (which cross at some point in the square) so that the sum of the digits in each section is the same.

