The Mathematicians' Christmaths Reunion Dinner

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Blaise Pascal 1623 - 1662
Born in Clermont, France

Pascal's present was a book - 'Fun with Triangular Number Patterns - Christmas edition'. He couldn't wait to pose a problem to his friends. So as he sipped on Santa's piping hot soup, he gave them the following task.

'Place each of the numbers from 1 to 10 into the white circles on the Christmas tree so that each number above two lower numbers shows the difference between the two numbers in the lower circles.'

Equation of Life

Make the following equation true. You may use the 4 operations (+ - x ÷) and brackets. For example, Albert Einstein 1879 - 1955 could be:
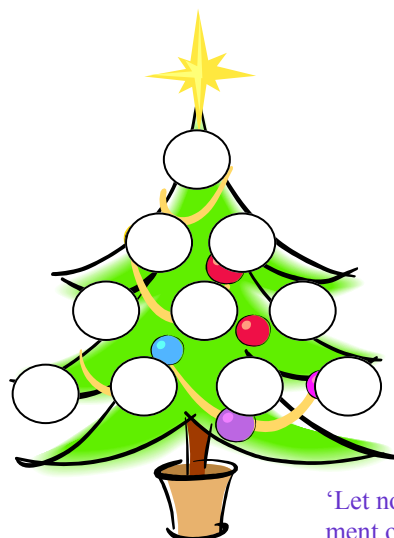18-7+9 = 19+5÷5.

$$1\ 6\ 2\ 3 = 1\ 6\ 6\ 2$$

Pascal studied the triangular pattern of numbers shown here.

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        1
       1 1
      1 2 1
     1 3 3 1
    1 4 6 4 1
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After Dinner Riddle

Rudolph built 17 snowmen, all but 9 melted. How many snowmen were left?

'Let no one say that I have said nothing new... the arrangement of the subject is new. When we play tennis, we both play with the same ball, but one of us places it better.' Pascal.