



Factors and multiples – Anand

Objectives

The relevant framework objectives are:

- understand and use the relationships between the four operations; use brackets
- choose and use appropriate number operations to solve problems, and appropriate ways of calculating.

Activity description

The pupils used multiplication and at least one other operation to find ways of making 37.

Commentary

Anand's work shows his competence with number relationships, factors, multiples and the use of brackets. Anand has presented his work in a clear and organised way and he has provided an explanation of how he approached the problem. This is typical of performance at level 5 in both Ma1 and Ma2.

To develop this aspect of mathematics Anand needs to be given further problems using larger numbers.



Items of work

Anand's calculations to find ways of making 37

Can I use any of these combinations?
eg. 36 (6x6), (6x6), 4x9

$3 \times (5-2) \times 4 + 1 = 37$
 $(3+6) \times 5 + 2 = 37$
 $(2 \times 4 \times 5) - 3 = 37$
 $(4^2 \times 2) + 5 = 37$
 $4 \times (1+3) \times 2 + 5 = 37$
 $(1+3) \times (2 \times 4) + 5 = 37$

36 (6x6)
 35 (7x5)
 40 (4x10)
 (8x5)
 32 (4x8)
 42 (6x7)

Think of a number which is near 37
eg. 36. What table fits it?
eg. 6x6, 4x9

36 (+1)
 35 (+2)
 40 (-3)
 32 (+5)
 42 (-5)

What has to be + or - to get 37



About this entry

Subject:	mathematics
Year:	6
Key stage:	2
NC programme of study:	Ma2p3a, Ma2p3c, Ma2p3f
Attainment target:	Ma1, Ma2
Evidence for:	level 5