

Coded multiplication tables – Anouska

Objectives

The relevant framework objective is:

• know by heart all multiplication facts up to 10 x 10 (key objective).

Additional objective:

• to explore strategies when solving problems.

Activity description

The pupils solved coded versions of the 1 to 9 multiplication tables.

Commentary

Anouska has used reasoning to confirm and check her results, which demonstrates performance at level 4 in Ma1.

Anouska has recalled multiplication facts when decoding the tables. This is typical of performance at level 4 in this aspect of Ma2.



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Items of work

Example of task sheet given to the pupils.

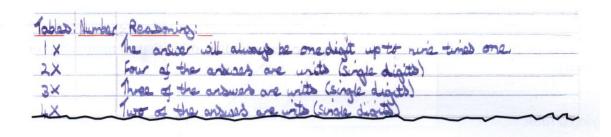
Table W	Table Y	Table Z
$H \times J = GJ$	C x G = BG	DxF=BG
$H \times F = BI$	$C \times J = AF$	DxA=D
H x B= D	$C \times H = JD$	$D \times D = JA$
HxI=BG	C x I = DG	DxC=IH
$H \times H = F$	C x B = C	$D \times I = AJ$
$H \times G = H$	C x C= AC	DxH=FC
$H \times D = GA$	CxE=DE	DxJ=HI
HxC=GB	C x A = BE	DxG=CF
H x A = BC	C x D = GD	D x B = GB
	H x J = GJ H x F = BI H x B= D H x I = BG H x H = F H x G = H H x D = GA H x C = GB	H x J = GJ



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Anouska's explanation of how she decoded the 1 to 9 multiplication tables



74	Ditinal F = D is 7 times 1 = 7 you can work this out by looking for another F (1)
	out of the answers. Which is three times seven = twenty-one (IF)
9×	Two of the answer have B(4) as the ten e is another two of the answers a B(4)
9 ×	D times A = D (nive times one = nine) that means the A stands for a one sor D times
	D=34 (9x9=81)



About this entry

Subject: mathematics

Year: 5 Key stage: 2

NC programme of study: Ma2p1a, Ma2p3f

Attainment target: Ma1, Ma2

Evidence for: level 4

Framework for teaching mathematics – objectives:

• Know by heart all multiplication facts up to 10 x 10.