DEEPENING UNDERSTANDING ANSWER SHEET

YEAR 5 PIM – MULTIPLY 2-DIGITS-BY 2-DIGITS

Fluency 1

×	30	4
20	600	80
4	120	16

Fluency 2

5X7 5X50 10X7 10X50

Fluency 3

		5	3	
×		4	5	
	2	6	5	5 × 53 = 265
2	1	2	0	40 × 53 = 2,120
2	3	8	5	265 + 2,120 = 2,385

Fluency 4

24 X 65=1,560

Reasoning 1

Modelled DAB Reasoning Responses

D – There is a mistake

A – 30 x 50 = 1,500 not 150

B – 3 x 5 = 15, 30 x 5 = 150 and so 30 x 50 = 1,500

Reasoning 2

Modelled DAB Reasoning Response

D – They are false

A – 36 x 26 is not equal to 25 x 36; 46 x 17 is greater than 16 x 47 and 53 x 41 is less than 51 x 43

B – 25 is one less than 26 so the calculations cannot be equal; 36 x 26 = 936 and 25 x 36 = 900

17 is one more than 16 so 46 x 17 must be greater than 46 x 16

53 x 41 = 2,173 and 51 x 43 = 2,193

Reasoning 3

Modelled DAB Reasoning Response

D – It is sometimes true

A – Sometimes a 2-digit number x a 2-digit number will give a 4-digit answer but not always

B – For example, 24 x 24 = 576 but 85 x 85 = 7,225

Reasoning 3

The missing digit Is 2

	2	4
×	3	2
	4	8
7	2	0
7	6	8

Download our 'DAB' posters to support reasoning in your classroom:

https://www.deepeningunderstanding.co.uk/product/dab-reasoning-posters/

Problem Solving 1

Lowest product = 24 X 12 = 288

Even number could be – 32X21=672; 32X16=512; 32X26=832 etc.

Multiple of 3 = 288; 672; 516 etc. (any 2-digit number multiplied by a multiple of 3 (12/24/21)