



DEEPENING UNDERSTANDING ANSWER SHEET

YEAR 3 PIM – MULTIPLY 2-DIGITS BY 1-DIGIT (1)

Fluency 1

T	O
10	1 1
10	1 1
10	1 1

$$\underline{12} \times \underline{3} = \underline{36}$$

Fluency 2

$$11 \times \boxed{9} = 99$$

$$\boxed{63} = 3 \times 21$$

$$24 \times 2 = \boxed{48}$$

Fluency 3

$$32 \times 3 \boxed{>} 11 \times 7$$

$$2 \times 14 \boxed{<} 12 \times 4$$

$$22 \times 4 \boxed{=} 8 \times 11$$



Fluency 4

$$23 + 23 + 23 = \underline{69}$$

$$23 \times \underline{3} = \underline{69}$$





Reasoning 1

Modelled DAB Reasoning Responses

D – No, Marlon has not represented the calculation properly.

A – Marlon has mixed up the 1s and 10s in the chart.

B – The correct representation of 43×2 is:

T	O
	
	

Reasoning 2

Modelled DAB Reasoning Response

D – Jerry has given the incorrect answer.

A – 33×3 is not 909

B – $30 \times 3 = 90$ and $3 \times 3 = 9$ and $90 + 9 = 99$ so $33 \times 3 = 99$.

99 has 9 tens and 9 ones. In Jerry's answer of 909, he has given 9 hundreds, 0 tens and 9 ones.

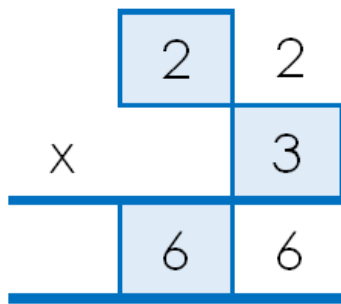
Reasoning 3

Modelled DAB Reasoning Response

D – Yes

A – The digit cards can be used to complete the calculation.

B –



Reasoning 4

Modelled DAB Reasoning Response

D – Jane is incorrect.

A – $13 \times 3 = \text{£}39$ so she will not have enough money to buy a scooter after 13 weeks.

B – Jane will need to save for one more week, as if she only saves for 13 weeks she will be $\text{£}6$ short of what she needs.

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

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

Problem Solving 1

There are multiple solutions:

$$30 \times 2 = 60$$

$$20 \times 3 = 60$$

$$10 \times 6 = 60$$



