



DEEPENING UNDERSTANDING ANSWER SHEET

YEAR 3 PIM – MULTIPLY BY 4

Fluency 1

There are 3 equal groups with 4 in each group.

There are 12 cars altogether.

$$4 + 4 + 4 = 12$$

$$3 \times 4 = 12$$

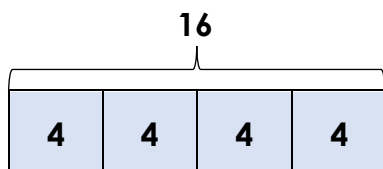
Fluency 2

Boats:

$$2 \times 4 = 8$$

Ice creams:

$$4 \times 4 = 16$$



Bees

$$1 \times 4 = 4$$

Fluency 3

Pupils should draw a picture that shows 7 sets each containing 4.



Reasoning 1

Pupil responses should show that Millie is correct.

Modelled DAB Reasoning Responses

D – Millie is correct.

A – You can use your 2 times table to help multiply by 4.

B – To times something by 2 you double the amount. You can then double this amount again to multiply it by 4.

Reasoning 2

Pupil responses should show that Jerry is incorrect.

Modelled DAB Reasoning Response

D – Jerry is incorrect.

A – The number cannot be the same.

B – You need to multiply 4 by 5 to get 20 so the number in the first box has to be 5. $6 \times 4 = 24$ not 5 so the numbers cannot be the same.

Reasoning 3

Responses should show that Asha has not ordered enough cakes.

Modelled DAB Reasoning Response

D – Asha does not have enough cupcakes.

A – $4 \times 6 = 24$ which is not enough cakes.

B – Asha needs 30 cakes so should order 8 boxes of cupcakes because $4 \times 8 = 32$



Reasoning 4

All of the numbers in the 4 times table are even.

Modelled DAB Reasoning Response

D – True

A – None of the numbers in the 4 times table are odd.

B – The numbers 4,8,12,16,20,24,28,32,36,40,44 and 48 are all even numbers.

There are no numbers in the 5 times table that are in the 4 times table.

Modelled DAB Reasoning Response

D – False

A – There are 2 numbers that are both in the 4 and 5 times table.

B – The numbers 20 and 40 are both in the 4 and 5 times table.

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

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

Problem Solving 1

Caleb has 19 bricks.

