



DEEPENING UNDERSTANDING ANSWER SHEET

YEAR 3 PIM – COMPARING STATEMENTS

Fluency 1



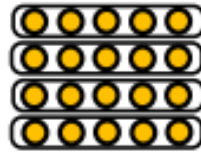
$$4 \times 5 = 20$$



$$5 \times 4 = 20$$



$$5 \times 4 = 20$$



$$4 \times 5 = 20$$



Fluency 2



$$2 \times 8 = 16$$

2×8 is greater than 5×3 .

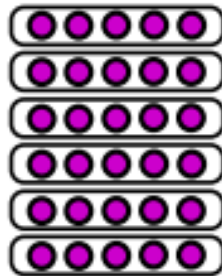
16 is greater than 15.



$$5 \times 3 = 15$$



$$21 \div 3 = 7$$



$$30 \div 6 = 5$$

Fluency 3

$$24 \div 2 \quad (<) \quad 2 \times 7$$

$$5 \times 3 \quad (>) \quad 3 \times 4$$

$$4 \times 4 \quad (=) \quad 8 \times 2$$

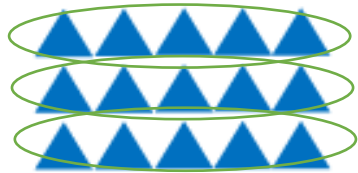
Reasoning 1

Modelled DAB Reasoning Responses

D – I agree

A – The array does show that $15 \div 3$ is equal to 3×5

B – . The array shows 3 rows of 5 and that totals 15 therefore, 15 is the same as 3 rows of 5 or $15 \div 3$.



Reasoning 2

Modelled DAB Reasoning Response

D – Sometimes

A – A division number sentence can have an answer which is greater than a multiplication total.

B – $80 \div 8 = 10$ and $2 \times 4 = 8$

The division number sentence in this example has a larger answer than the multiplication.

Reasoning 3

Pupil responses should show that Asha is incorrect.

Modelled DAB Reasoning Response

D – C

A – C is the only one which uses the equal sign.

B – Both A and B have one calculation with a greater answer than the other.

$$6 \times 6 < 5 \times 8$$

$$36 < 40$$

$$4 \times 7 > 8 \times 3$$

$$28 > 24$$

Children may also suggest:

D – B

A – B is the only one to use a symbol instead of words.

B – If B used words it would look like this:

4 x 7 is greater than 8 x 3

Reasoning 4

Modelled DAB Reasoning Response

D – I disagree with Anita.

A – The missing number can only be 0.

B – The last part of the statement is $5 + 5 = 10$ and the only way to make 10 is to divide 20 by 2 so the missing number must be 0.

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. Answers could include:

$$2 \times 8 > 2 \times 3$$

$$9 \times 6 < 9 \times 8$$

$$3 \times 4 = 2 \times 6$$

$$28 \div 4 < 3 \times 9$$

Problem Solving 2

There are multiple solutions. Answers could include:

$$3 \times 9 > 2 \times 4 < 9 \times 6$$

$$96 \div 8 = 2 \times 6 = 3 \times 4$$

$$9 \times 4 > 3 \times 6 = 2 \times 9$$

