



DEEPENING UNDERSTANDING ANSWER SHEET

YEAR 3 PIM – COMPARE MASS

Fluency 1

The bananas' mass is **less** than the apples' mass.

500 grams is **less** than **700** grams.

Fluency 2



200g is less than 2kg.

1000g is equal to 1kg.

1kg and 500g is greater than 1kg and 50g.

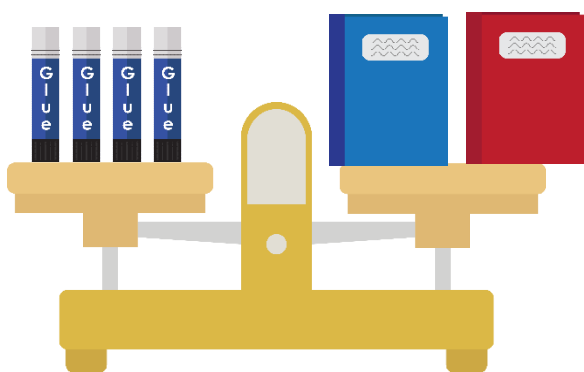
Fluency 3

The lorry's mass is **less** than the bus's mass.

800 grams is **less** than **850** grams.



Fluency 3



Answers could include: 1 glue stick is lighter than 1 exercise book.

3 glue sticks are heavier than 1 exercise book.

Reasoning 1

Modelled DAB Reasoning Responses

D – Darcey is wrong.

A – Asha doesn't have the heaviest mass.

B – $1,000\text{g} = 1\text{kg}$, so Asha has 1kg and 40g , but Millie has 1kg and 400g , so Millie's weights are heavier.

Reasoning 2

Modelled DAB Reasoning Response

D – The statement is incorrect.

A – 4 kg is not the same as 400g .

B – 1kg is equal to $1,000\text{g}$ so $4\text{ kg} = 4 \times 1,000\text{g}$ which is $4,000\text{g}$, not 400g .

Reasoning 3

Modelled DAB Reasoning Response

D – False

A – The mass shown on each scale is the same.

B – The scales have different maximum masses so the arrows are pointing in different places. The scale on the right only goes up to 5kg , whereas the scale on the left goes up to 10kg . The arrows are both pointing to 3kg .



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

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

Problem Solving 1

Oranges: 700g

Grapes: 500g

Apples: 700g

Bananas: 1kg and 400g

The oranges are equal to the apples.

The grapes are lighter than the oranges.

The bananas are heavier than the oranges.

The oranges are heavier than the grapes.

The grapes are lighter than the apples.

The bananas are heavier than the grapes.

The children might also notice that the bananas are double the weight of the oranges (or apples).

Problem Solving 2

Alfie	Caleb	Anita	Jerry
1kg and 200g	1kg and 400g	1kg and 900g	3kg and 900g
2kg and 200g	2kg and 400g	2kg and 900g	4kg and 900g
3kg and 200g	3kg and 400g	3kg and 900g	5kg and 900g
4kg and 200g	4kg and 400g	4kg and 900g	6kg and 900g

