



YR3 PROGRESSION IN MASTERY LESSON PACK - ADD AND SUBTRACT MASS

FLUENCY 1

Add the weights together.



First add the _____.

_____ + _____ = _____

Then add the _____.

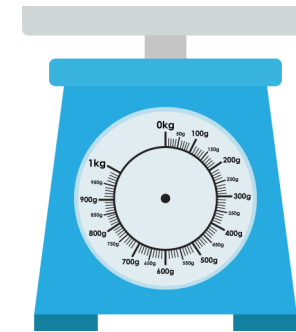
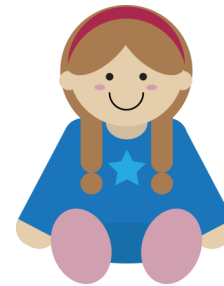
_____ + _____ = _____

Next add the _____ and _____.

_____ + _____ = _____ and _____

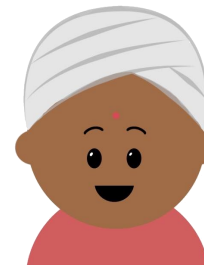
FLUENCY 2

A doll weighs 150g. Draw how much 3 dolls would weigh.



FLUENCY 3

The mass of Ranjit's empty watering can is 1kg and 200g.
When it is full, its mass is 6kg and 700g.



What is the difference in its full mass and its empty mass?



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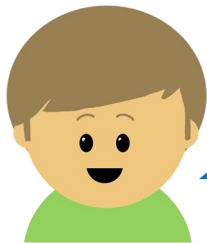
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REASONING 1

Jerry says...

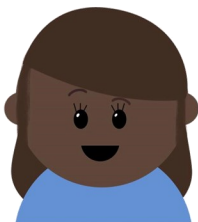


If I add 3kg, 2kg and 250g together, I get a mass heavier than 5kg.

Is he correct? Explain your answer

REASONING 2

Always, Sometimes or Never?



When you subtract, the mass of individual objects changes.

Prove it!

REASONING 3

What could the next calculation be?

1kg and 100g = 1kg and 100g

1kg and 100g + 2kg and 200g = 3kg and 300g

How can you convince me?

REASONING 4

Spot the mistake in each calculation.

2kg and 500g - 500g = 2kg and 0g

8kg and 500g - 3kg and 400g = 6kg and 100g

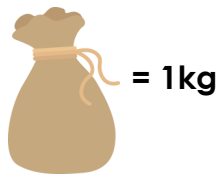
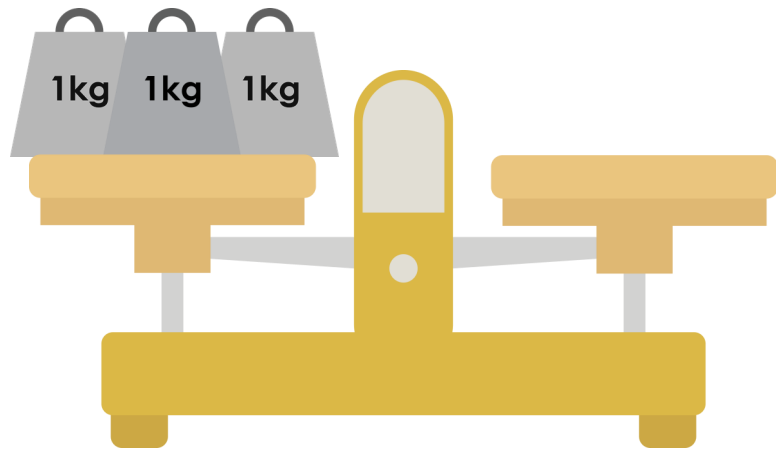
2kg subtract half a kilogram equals 1kg





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PROBLEM SOLVING 1



= 1kg



= 500g



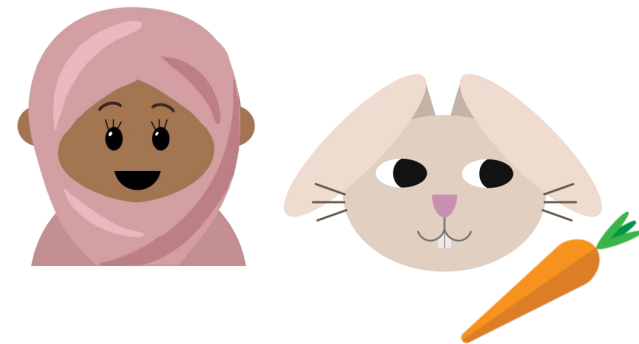
= 200g

Balance the scales using no more than 7 bags.

Write a number sentence to show each solution.

PROBLEM SOLVING 2

Asha's rabbit loves eating carrots so she buys a 5 kilogram bag and a 500 gram bag.



Her rabbit eats an even number of kilograms and an odd number of hundred grams.

What mass of the carrots could be left?
How many possibilities can you find?



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