Reasoning and Problem Solving Step 2: Measuring Mass 2

National Curriculum Objectives:

Mathematics Year 3: (3M2b) Measure mass (kg/g)

Mathematics Year 3: (3N1b) Count from 0 in multiples of 4, 8, 50 and 100

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Identify and explain which of the two scales displays the heaviest/lightest measure, using mixed measurements of kg and g. Using measurements in multiples of 100. Every increment labelled.

Expected Identify and explain which of the three scales displays the heaviest/lightest measure, using mixed measurements of kg and g. Using measurements in multiples of 50 and 100. Every other increment labelled.

Greater Depth Identify and explain which of the three scales displays the heaviest/lightest measure, using mixed measurements of kg and g. Using measurements in multiples of 50 and 100. Only kg increments labelled.

Questions 2, 5 and 8 (Problem Solving)

Developing Find the combination of objects that will balance the scales, using mixed measurements of kg and g. Using measurements in multiples of 100. Every increment labelled.

Expected Find the combination of objects that will balance the scales, using mixed measurements of kg and g. Using measurements in multiples of 50 and 100. Every other increment labelled.

Greater Depth Find the combination of objects that will balance the scales, using mixed measurements of kg and g. Using measurements in multiples of 50 and 100. Only kg increments labelled.

Questions 3, 6 and 9 (Reasoning)

Developing Explain who is correct when reading scales, using mixed measurements of kg and g. Using measurements in multiples of 100. Every increment labelled.

Expected Explain who is correct when reading scales, using mixed measurements of kg and g. Using measurements in multiples of 50 and 100. Every other increment labelled.

Greater Depth Explain who is correct when reading scales, using mixed measurements of kg and g. Using measurements in multiples of 50 and 100. Only kg increments labelled.

More Year 3 Mass and Capacity resources

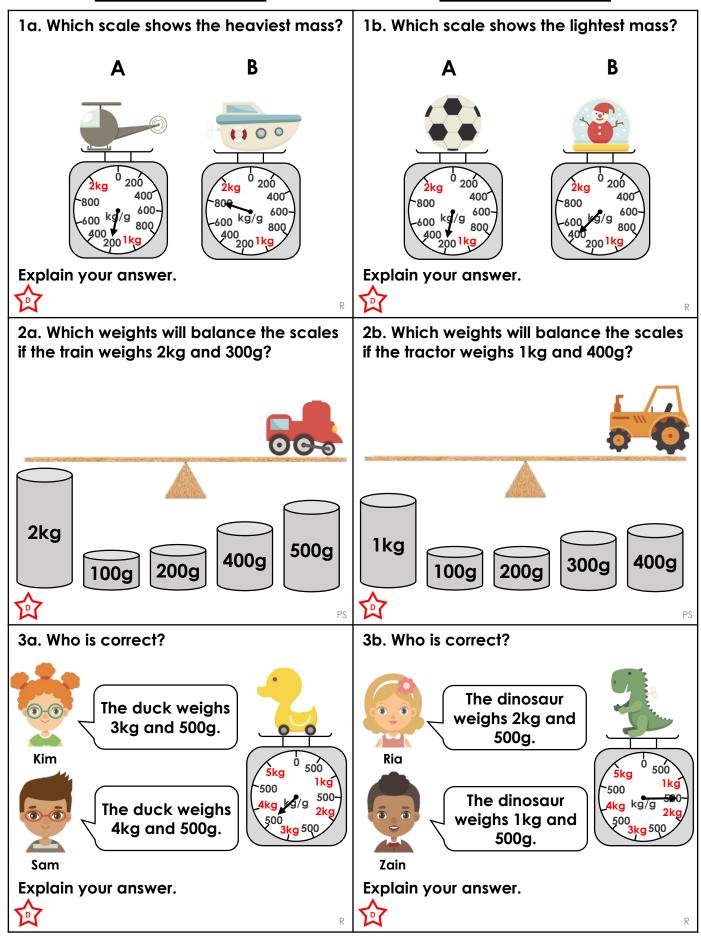
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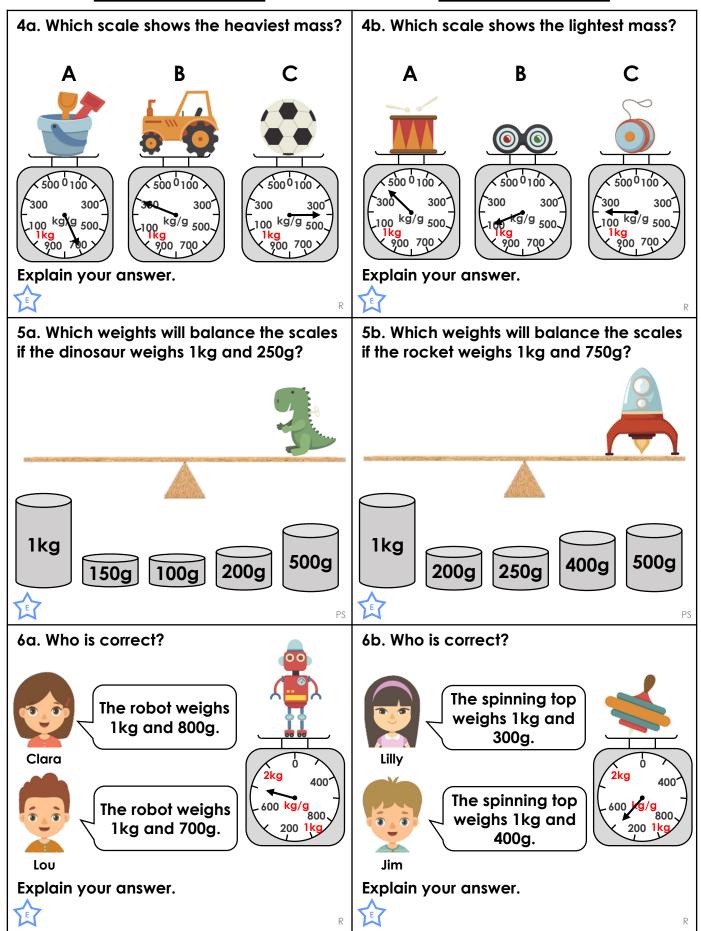
Measure Mass 2

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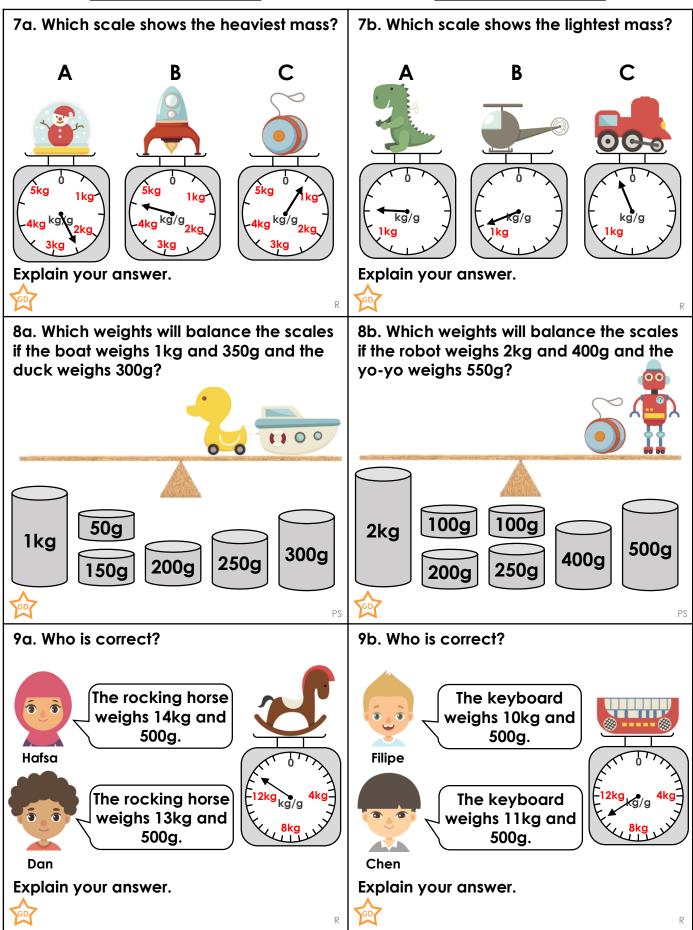




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<u>Developing</u>

1a. B because 1kg and 800g is heavier that 1kg and 200g.

2a. 2kg + 200g + 100g

3a. Kim because the scale reads 3kg and 500g.

Expected

4a. B because 1kg and 300g is heavier than 700g or 400g.

5a. 1kg + 150g + 100g

6a. Clara because the scale reads 1kg and 800g.

<u>Greater Depth</u>

7a. B because 4kg and 500g is heavier than 2kg and 500g or 500g.

8a. 1kg + 300g + 200g + 150g or 1kg +

250g + 200g + 150g + 50g

9a. Dan because the scale is showing

13kg and 500g.

Developing

1b. A because 1kg and 200g is lighter than 1kg and 400g.

2b. 1kg + 300g + 100g or 1kg + 400g 3b. Zain because the scale reads 1kg and 500g.

Expected

4b. B because 1kg and 100g is lighter than 1kg and 400g or 1kg and 200g.

5b. 1kg + 500g + 250g

6b. Jim because the scale reads 1kg and 400g.

<u>Greater Depth</u>

7b. B because 1kg and 100g is lighter than 1kg and 500g or 1kg and 200g.

8b. 2kg + 400g + 250g + 200g + 100g or 2kg + 500g + 250g + 100g + 100g or

2kg + 500g + 200g + 250g

9b. Filipe because the scale is showing 10kg and 500g.

