National Curriculum Objectives:

Mathematics Year 3: (3M1a) <u>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g);</u> volume/capacity (l/ml)

Differentiation:

Developing Add the lengths of 3 objects (in mm) to see if they will or will not all fit on a bridge measured in cm.

Secure Add the lengths of 5 objects (either all in cm or all in mm) to see if they will or will not all fit on a bridge measured in whole metres.

Mastery Add the lengths of 5 objects (some in cm and some in mm) to see if they will or will not all fit on a bridge measured in whole metres.

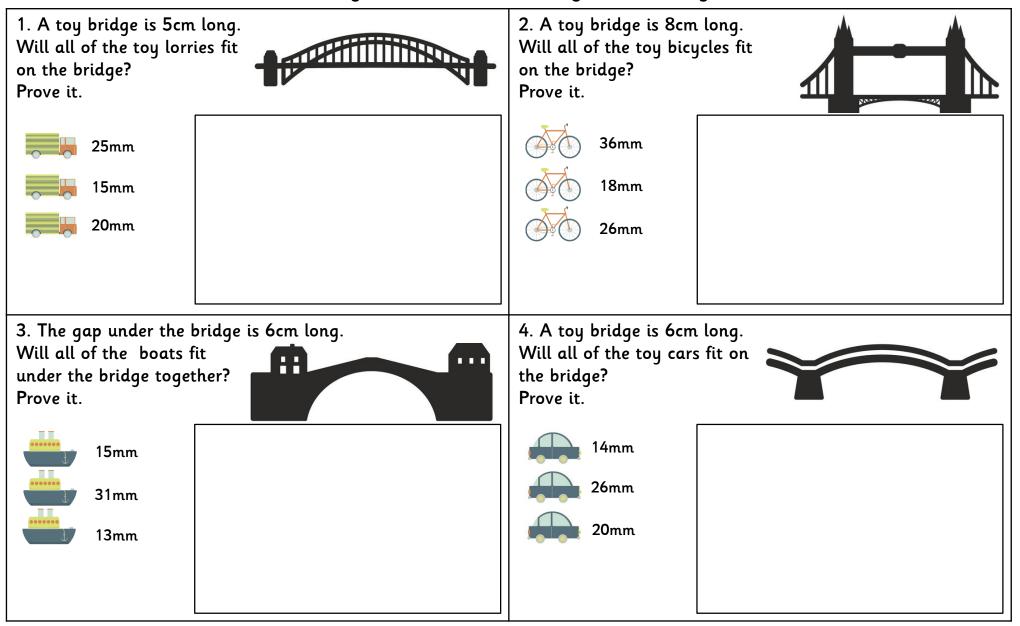
More <u>Reasoning and Problem Solving</u> Resources.

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Reasoning and Problem Solving – Add Lengths – Teaching Information

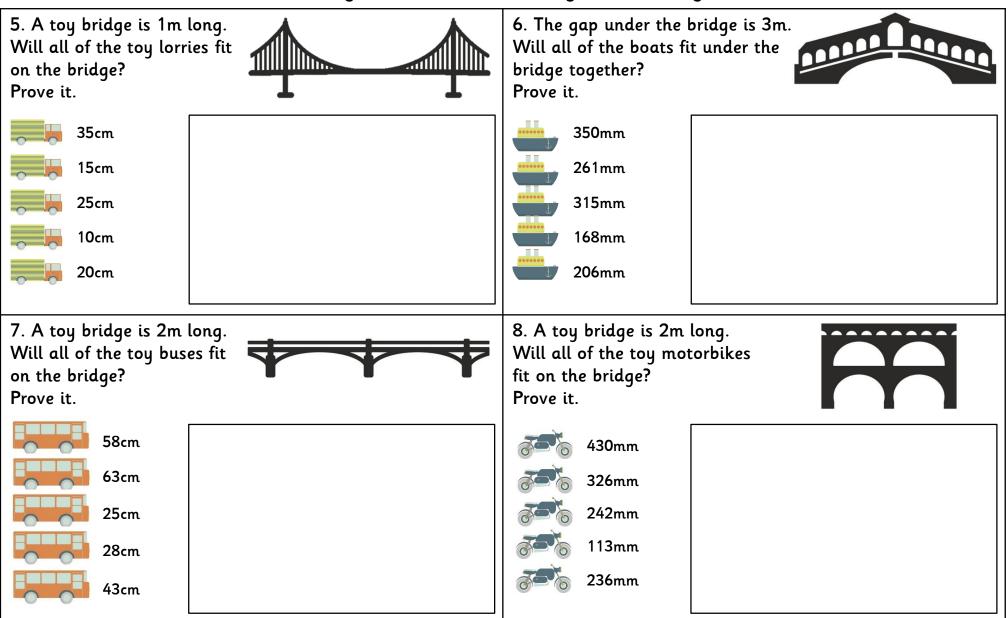


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Reasoning and Problem Solving - Add Lengths - Year 3 Developing

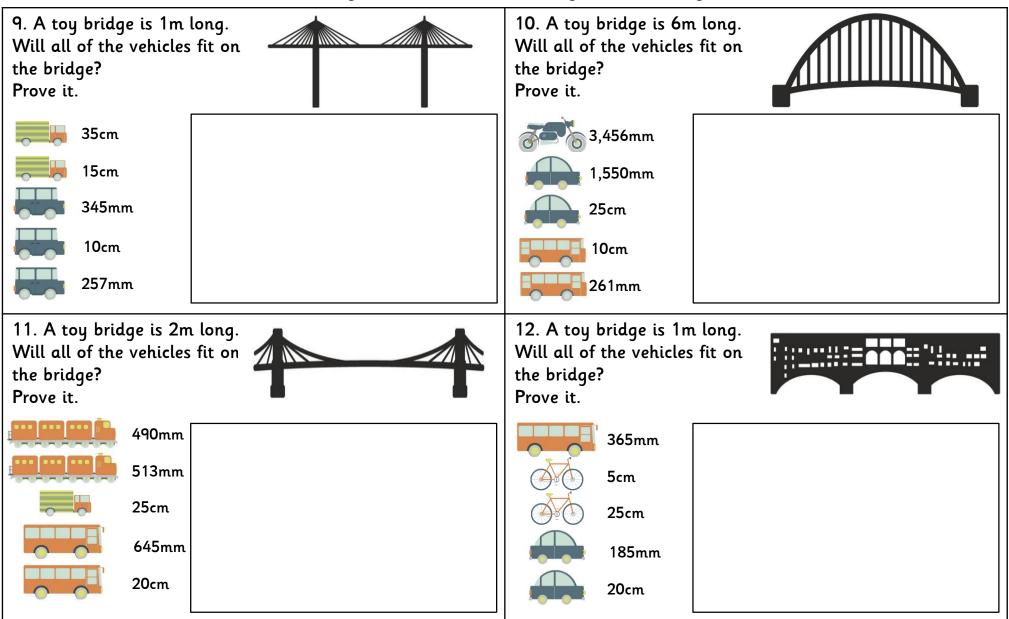
<u>Reasoning and Problem Solving – Add Lengths 1</u>



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Reasoning and Problem Solving – Add Lengths – Year 3 Secure



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Reasoning and Problem Solving – Add Lengths – Year 3 Mastery

Developing

- 1. 25 + 15 + 20 = 60 mm. 60mm is more than 5cm, so the lorries will not all fit on.
- 2. 36 + 18 + 26 = 80mm. 80mm is equal to 8cm, so the bicycles will all fit on.
- 3. 5 + 31 + 13 = 59mm. 59mm is less than 6cm, so the boats will all fit under.
- 4. 14 + 26 + 20 = 60 mm. 60 mm is equal to 6cm, so the cars will all fit on.

<u>Secure</u>

5. 35 + 15 + 25 + 10 + 20 = 105cm. 105cm is longer than 1m, so the lorries will not all fit on.
6. 350 + 261 + 315 + 168 + 206 = 1,300mm. 1,300mm is shorter than 3m, so the boats will all fit under the bridge.
7. 58 + 63 + 25 + 28 + 43 = 217cm. 217cm is longer than 2m, so the buses will not all fit on.
8. 430 + 326 + 242 + 113 + 236 = 1,347mm. 1,347mm is shorter than 2m, so the motorbikes will all fit on.

Mastery

9. 350 + 150 + 345 + 100 + 257 = 1,202mm. 1,202mm is more than 1m, so the vehicles will not fit on. 10. 3456 + 1550 + 250 + 100 + 261 = 5,617mm. 5,617mm is less than 6m, so the vehicles will all fit on. 11. 490 + 513 + 250 + 645 + 200 = 2,098mm. 2,098mm is more than 2m, so the vehicle will not fit on. 12. 365 + 50 + 250 + 185 + 200 = 1,050mm. 1,050mm is more than 1m, so the vehicles will not fit on.

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Reasoning and Problem Solving – Add Lengths ANSWERS

