## Reasoning and Problem Solving - Add Lengths 1

## National Curriculum Objectives:

Mathematics Year 3: (3M1a) Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); 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.

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## Developing

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

## Secure

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

## Mastery

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

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