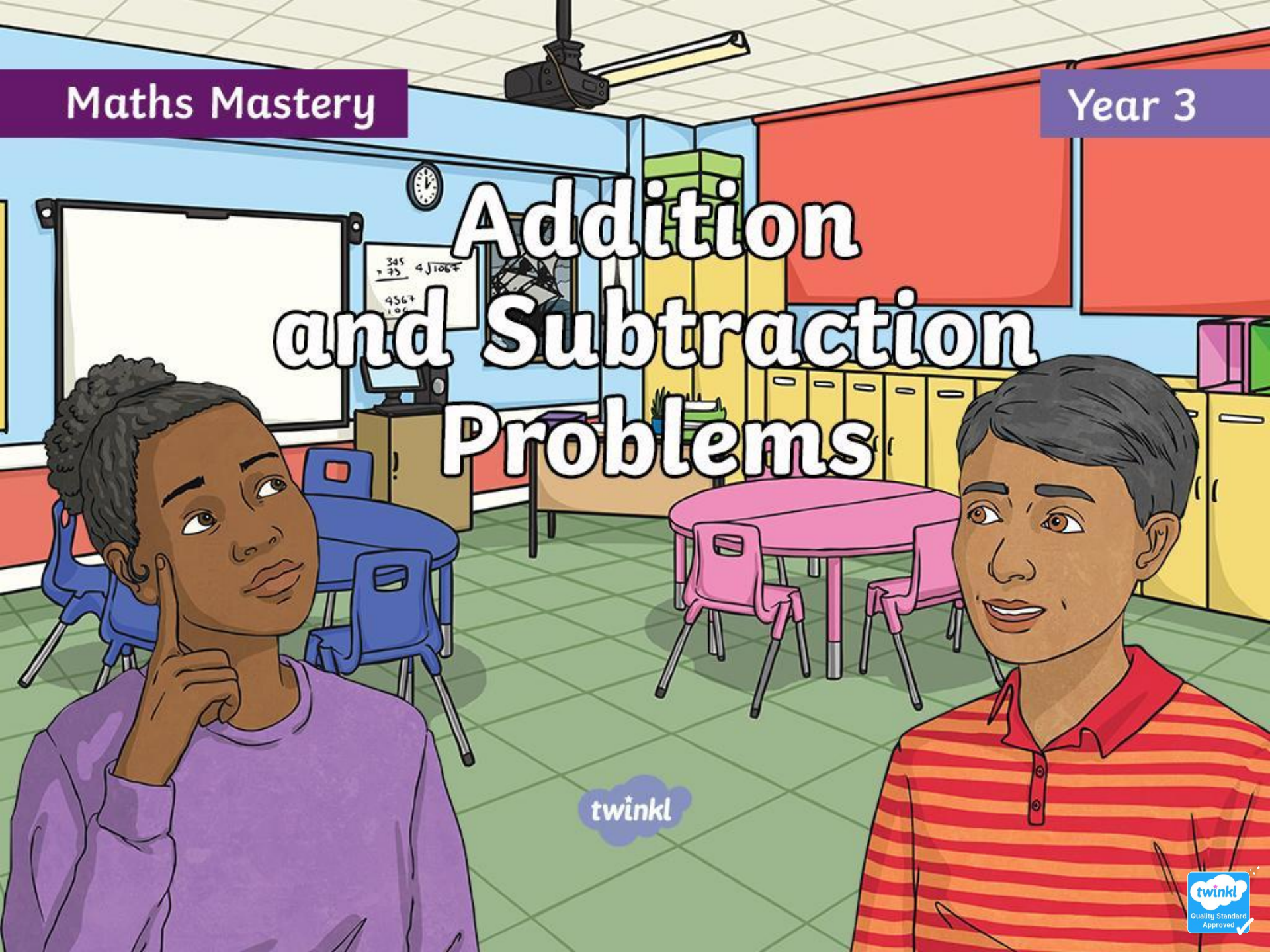
Maths Mastery
Year 3
Addition and Subtraction Problems
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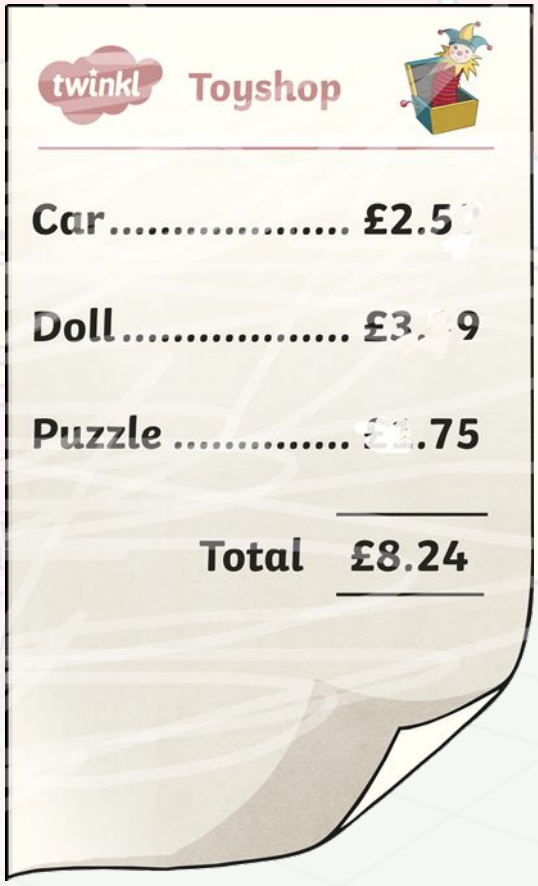
Till Receipt

Ruby has a receipt for some toys. Sadly, the puzzle that she bought is damaged and she wants to return it to the shop. Her receipt is also damaged.

Calculate how much each toy cost.

Compare your answer with a partner, explaining how you got the answer.

Write your own problem involving missing numbers on a receipt for your partner to solve.



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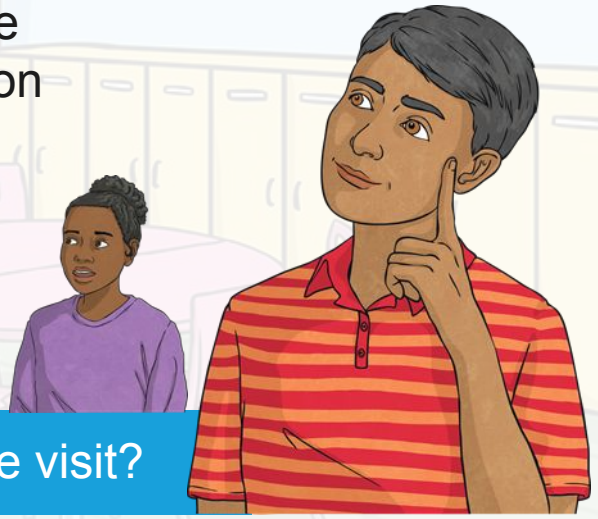
Museum Visit

Three classes of children visit a museum. Ruby's class has 29 children, Mariam's class has 30 children and Mohammed's class has 27 children.

Some children are absent for the visit. In all, there are 90 people on the bus, including six adults.



How many children were absent and missed the visit?

Calculate the answer, then with a partner, show two different ways to calculate the answer.

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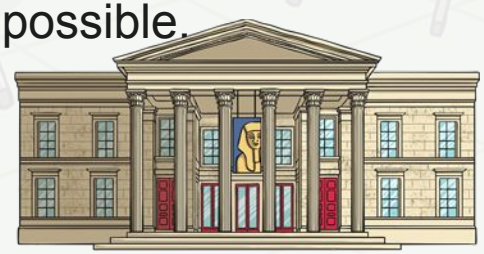
Museum Visit (Answer)

1. 29 + 30 + 27 = 86 children in the classes,
   90 – 6 adults = 84 children went on the trip,
   86 – 84 = 2 children absent.

2. 29 + 30 + 27 + 6 = 92 people who might go on the trip, 92 – 90 = 2 children absent.

Other answers possible.



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Adding Three Two-Digit Numbers

Mohammed needs to add three two-digit numbers mentally.

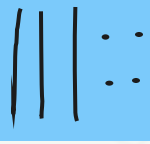
Choose a visual model and explain how you would use this model to calculate the total of three two-digit numbers, using an example.

Share your explanation with a partner.

bar model

Click on the links for some examples.

base ten



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Adding Three Two-Digit Numbers Using a Bar Model

Here is an example question: 34 + 72 + 57

Draw two bars and split the bottom bar in 2 parts.

150 + 13 = 163	
30 + 70 + 50 = 150	4 + 2 + 7 = 13

In the first part of the bottom bar, add the tens.

In the second part of the bottom bar, add the ones.

Combine for the answer.

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Adding Three Two-Digit Numbers Using Base Ten

Here is an example question: 34 + 72 + 57

Draw each number using sticks for 10s and tiny squares or dots for ones.

Count the tens. 1
5
7

Count the ones. 1
3

Combine for the answer: 150 + 13 = 163

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