Troublesome Trains

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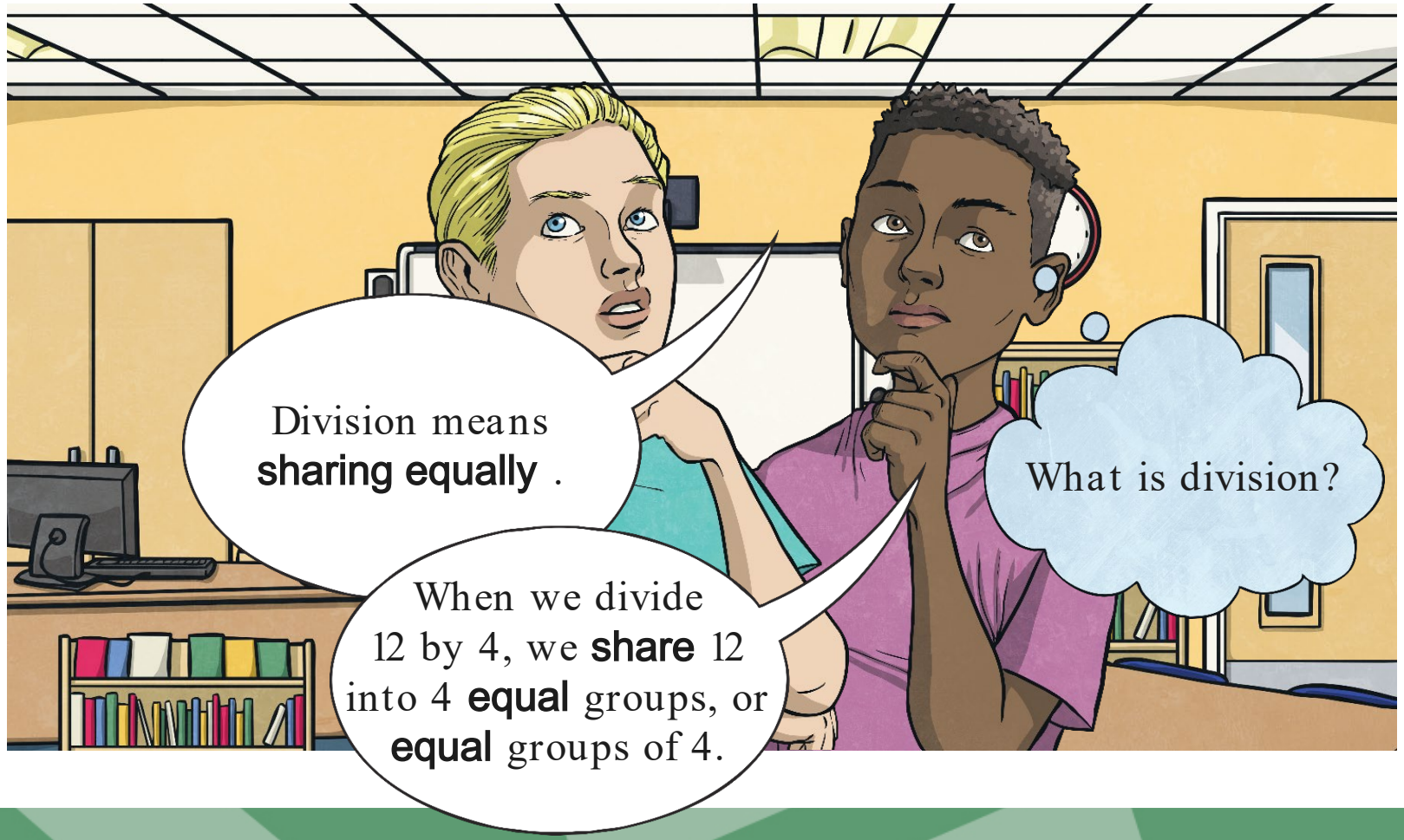
What Is Division?

Discuss these questions with your partner:



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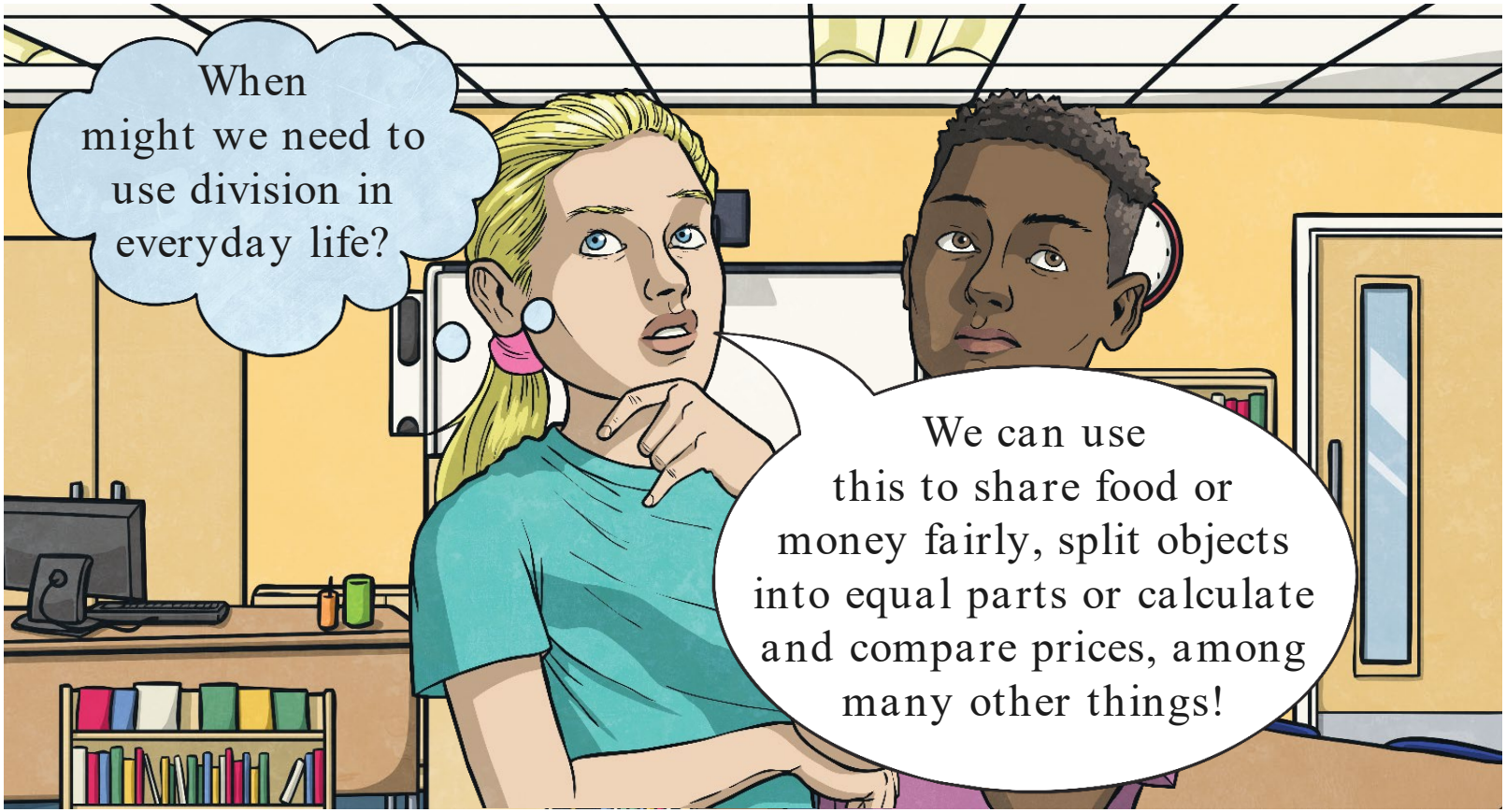

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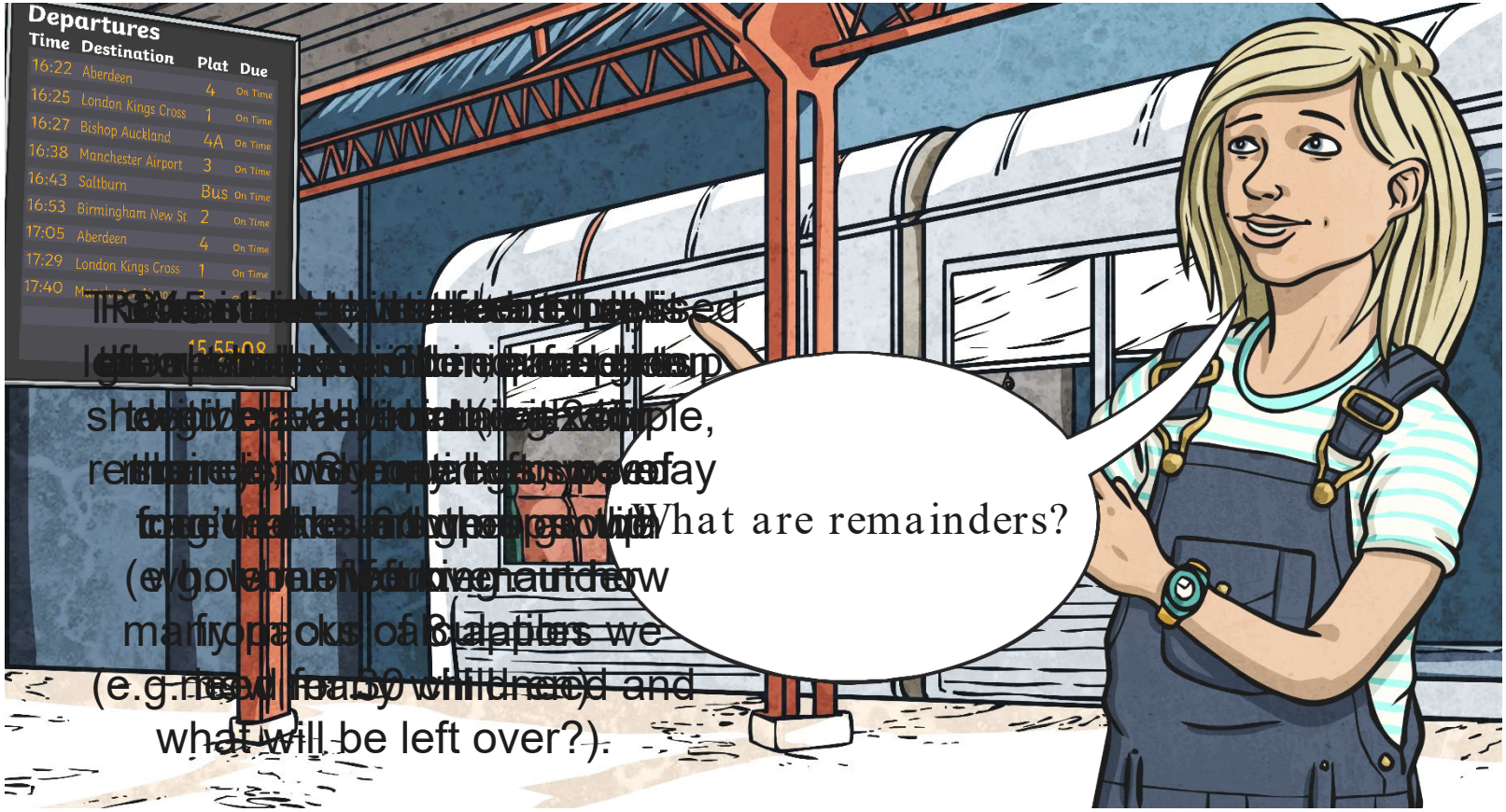
What Are Remainders?

Solve this calculation:

$245 \div 4 =$



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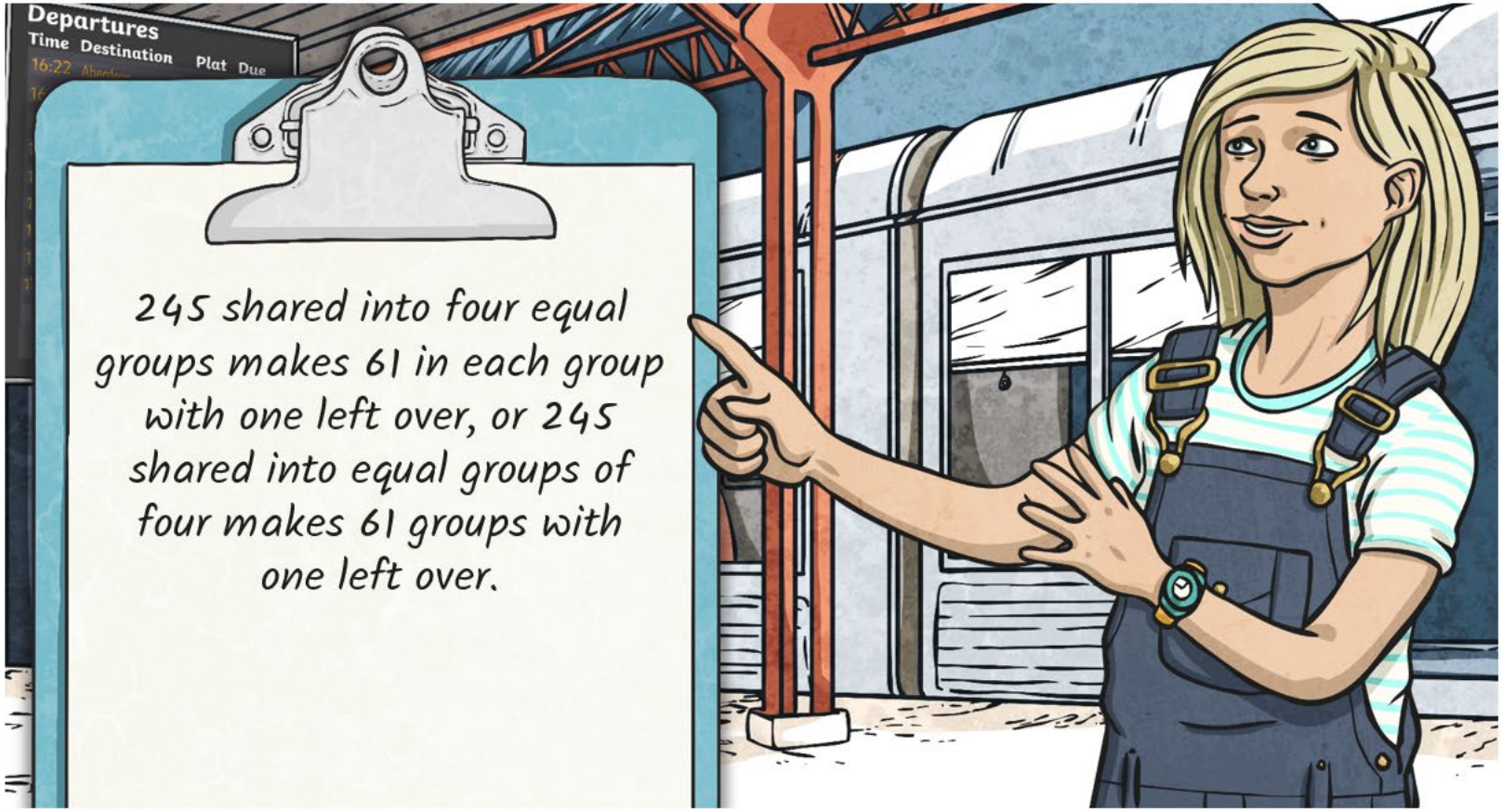

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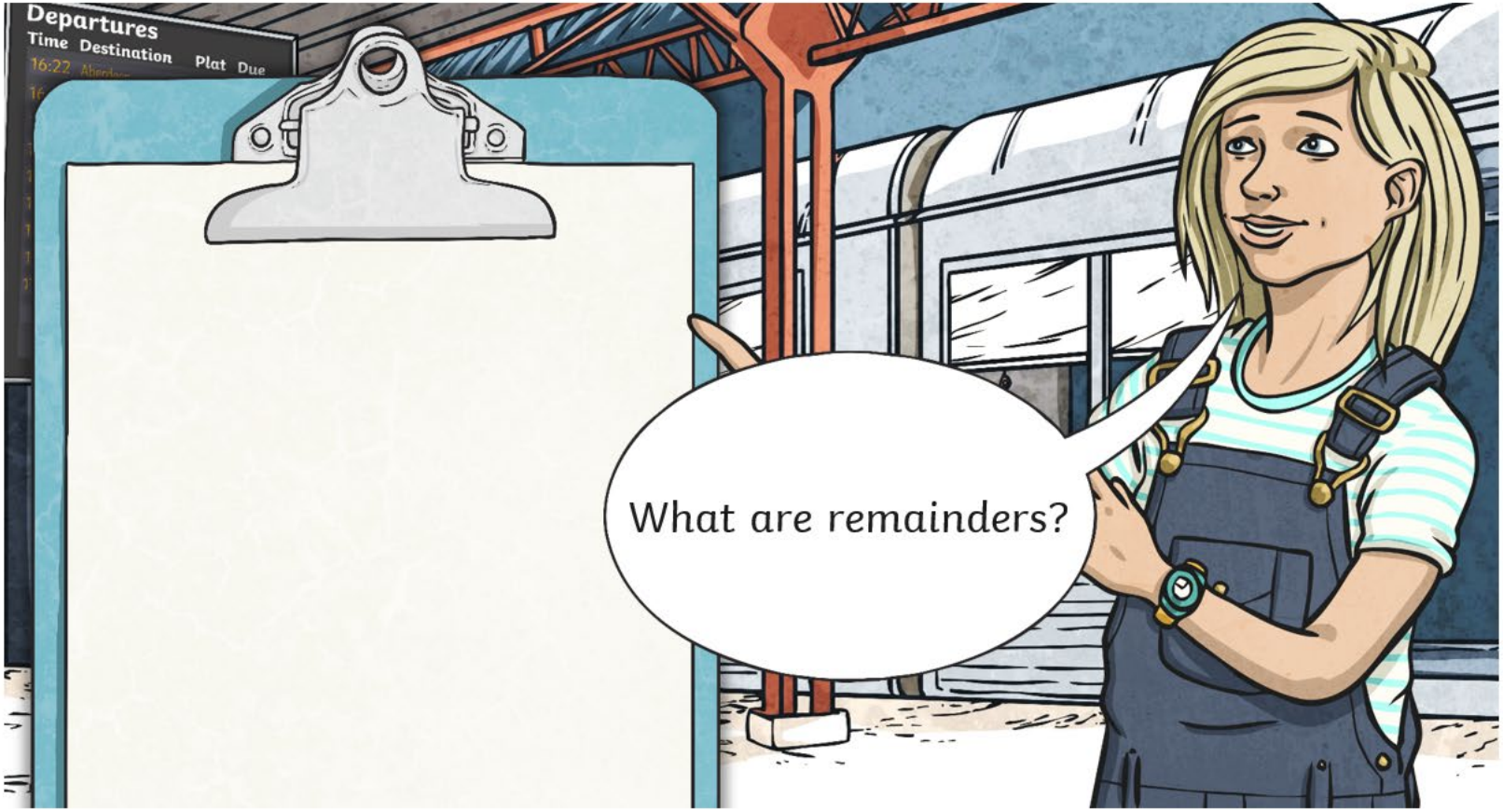

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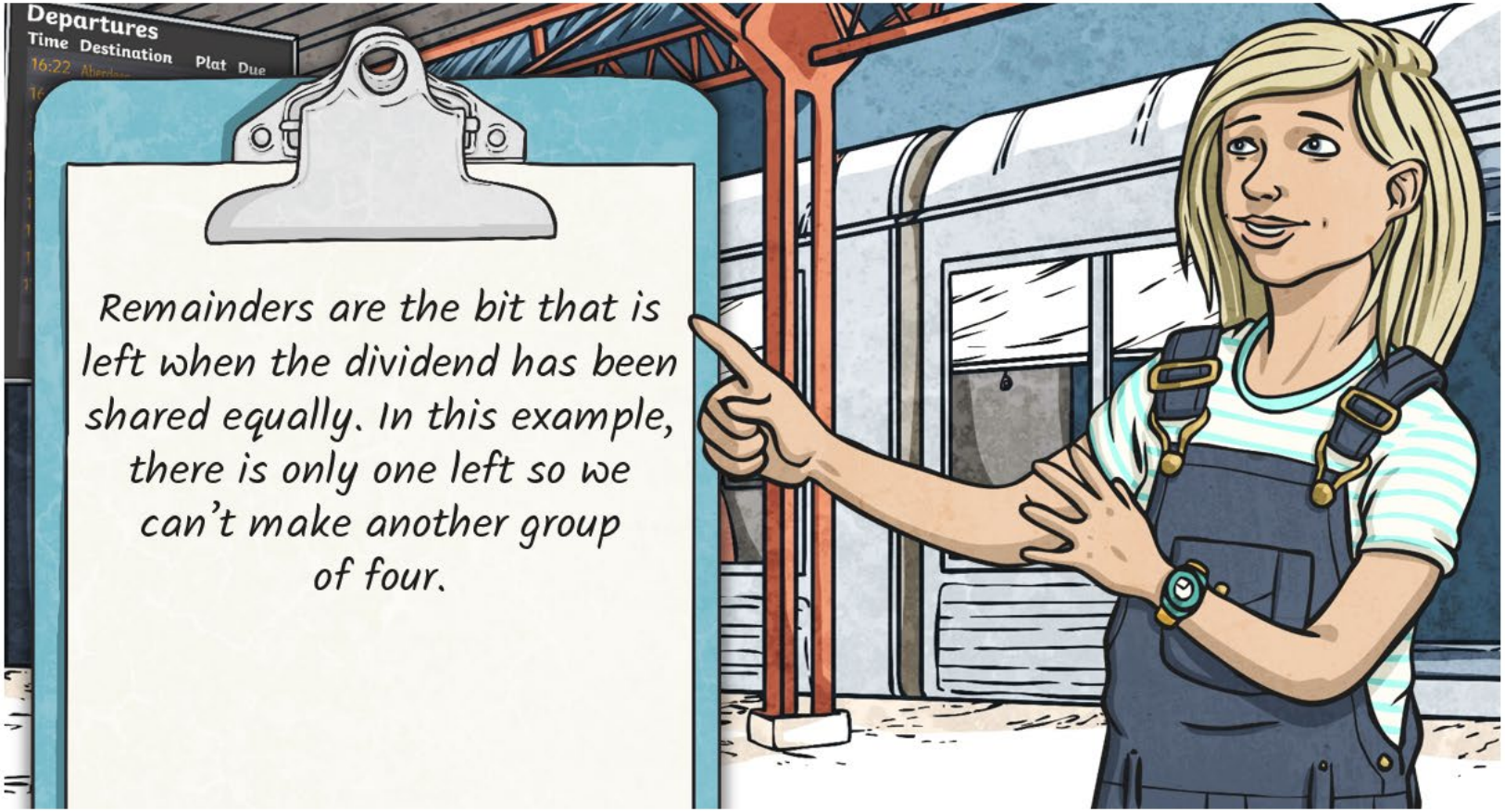

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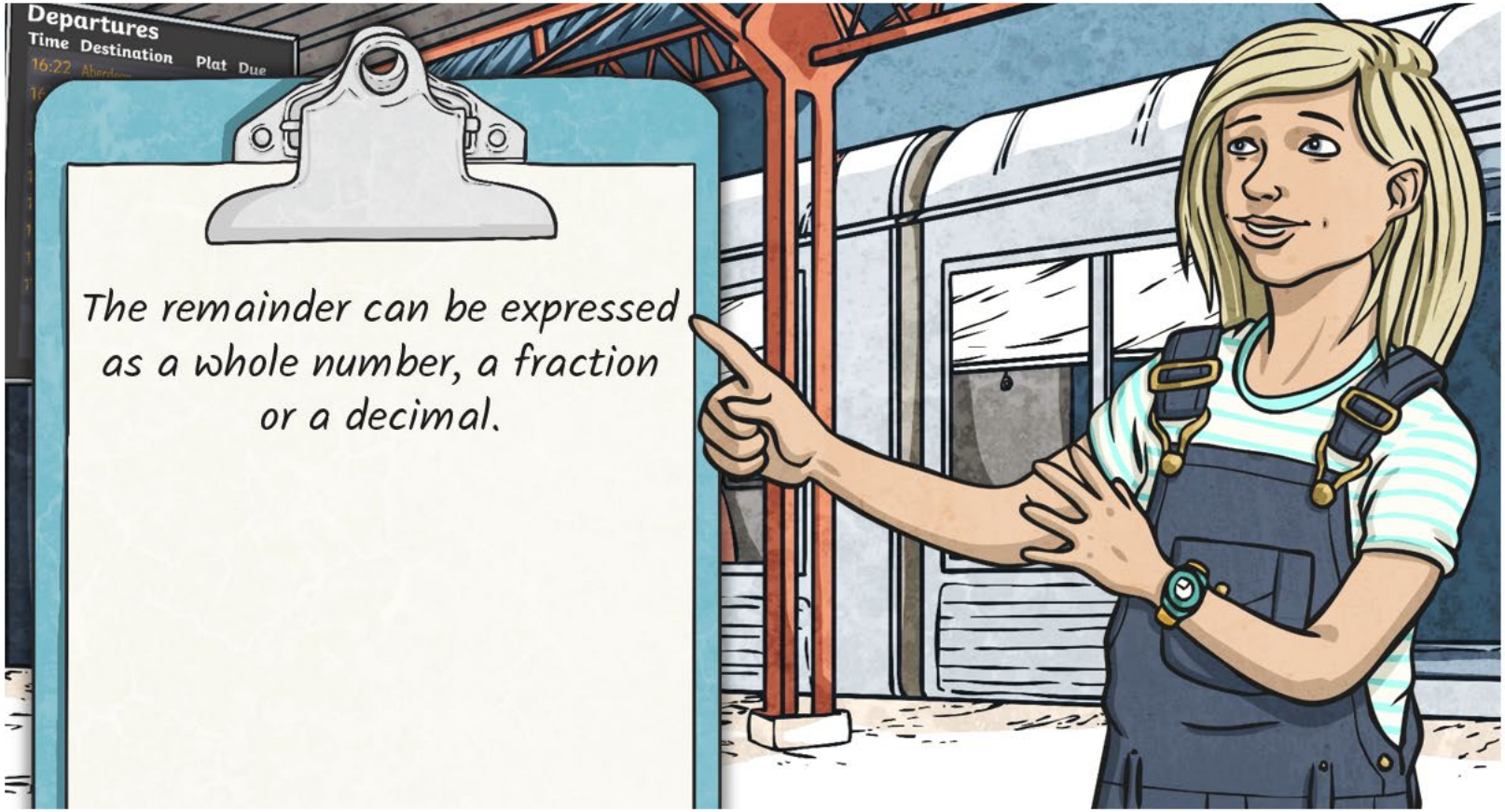

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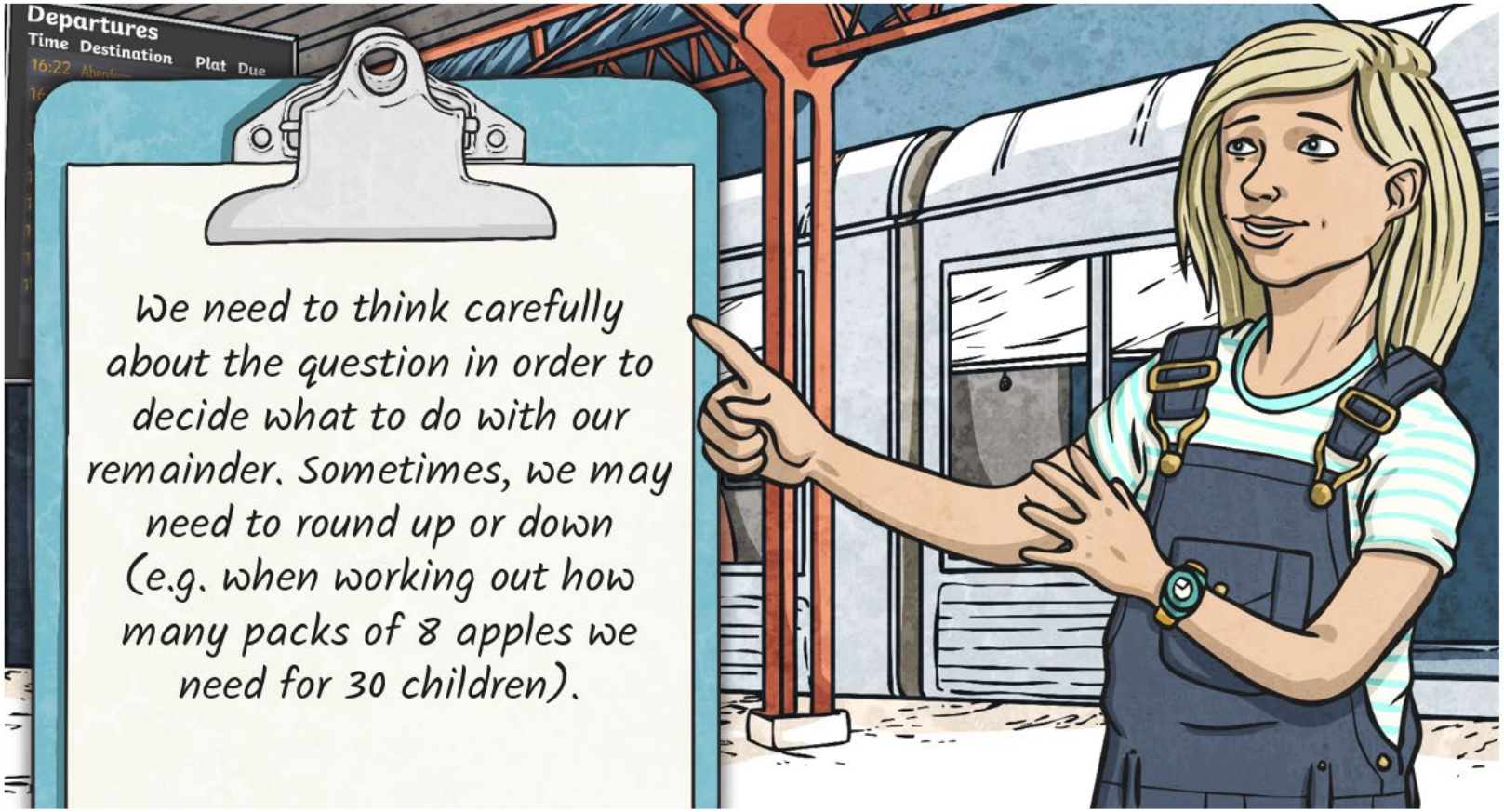

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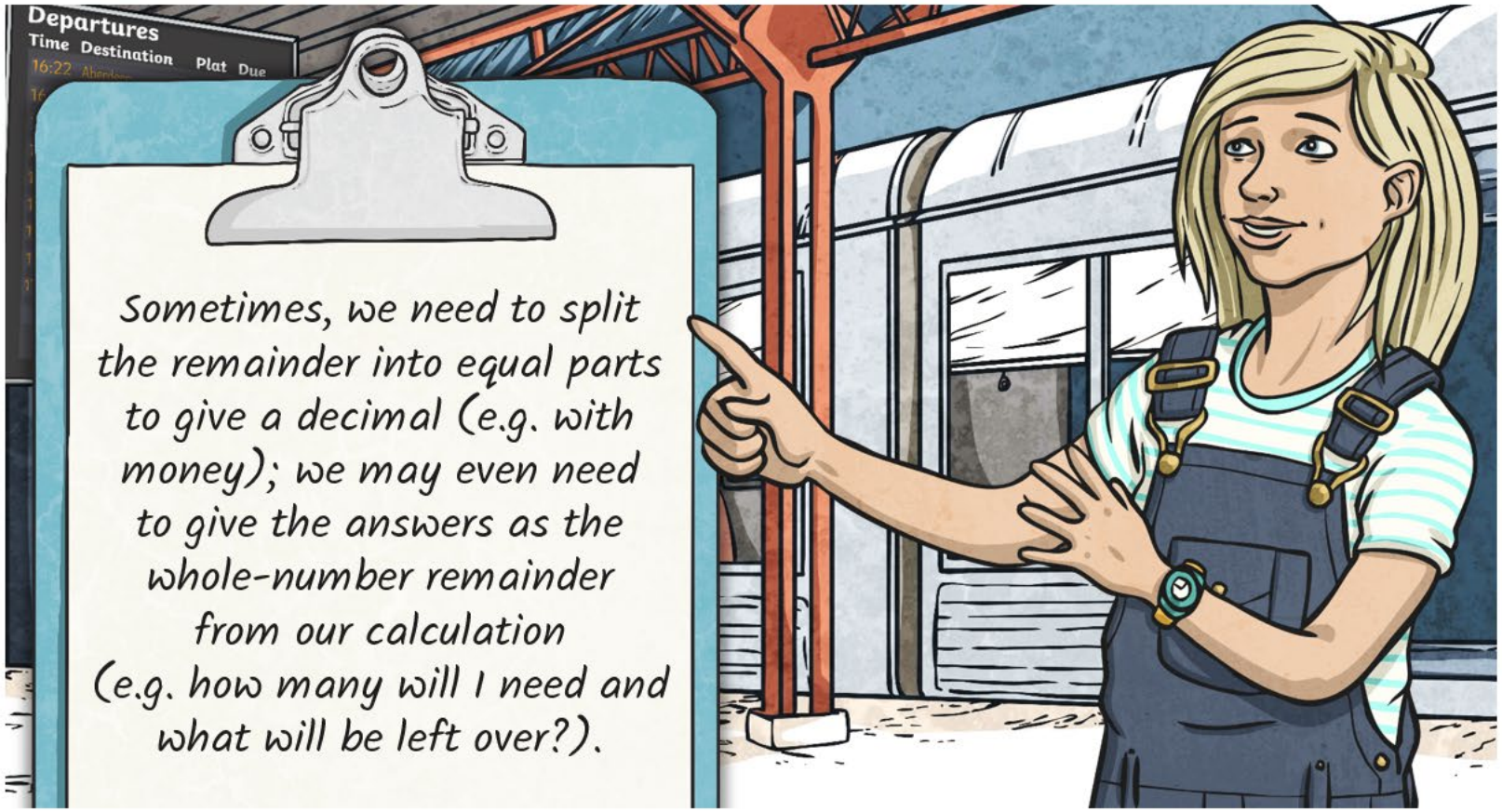

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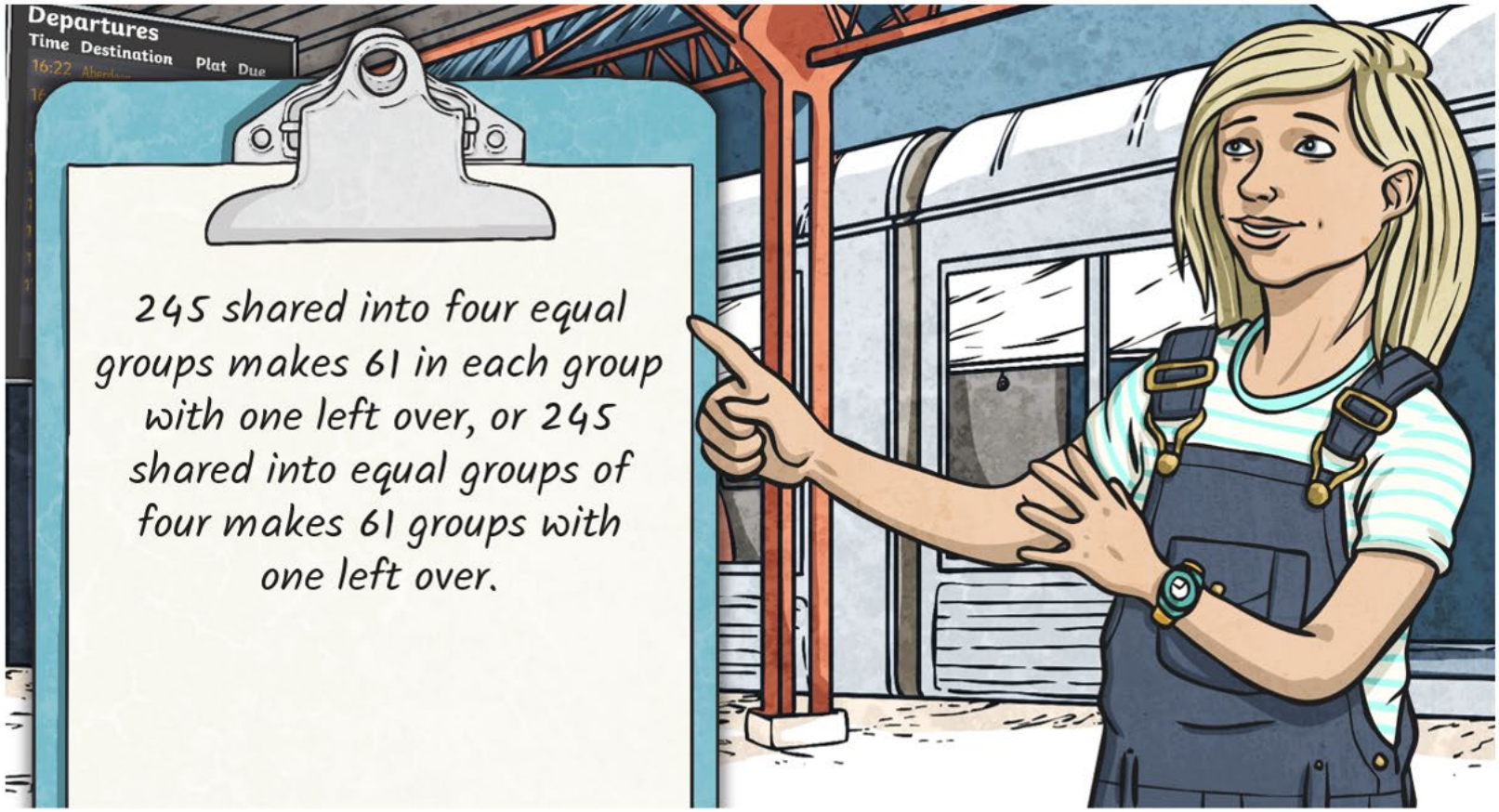

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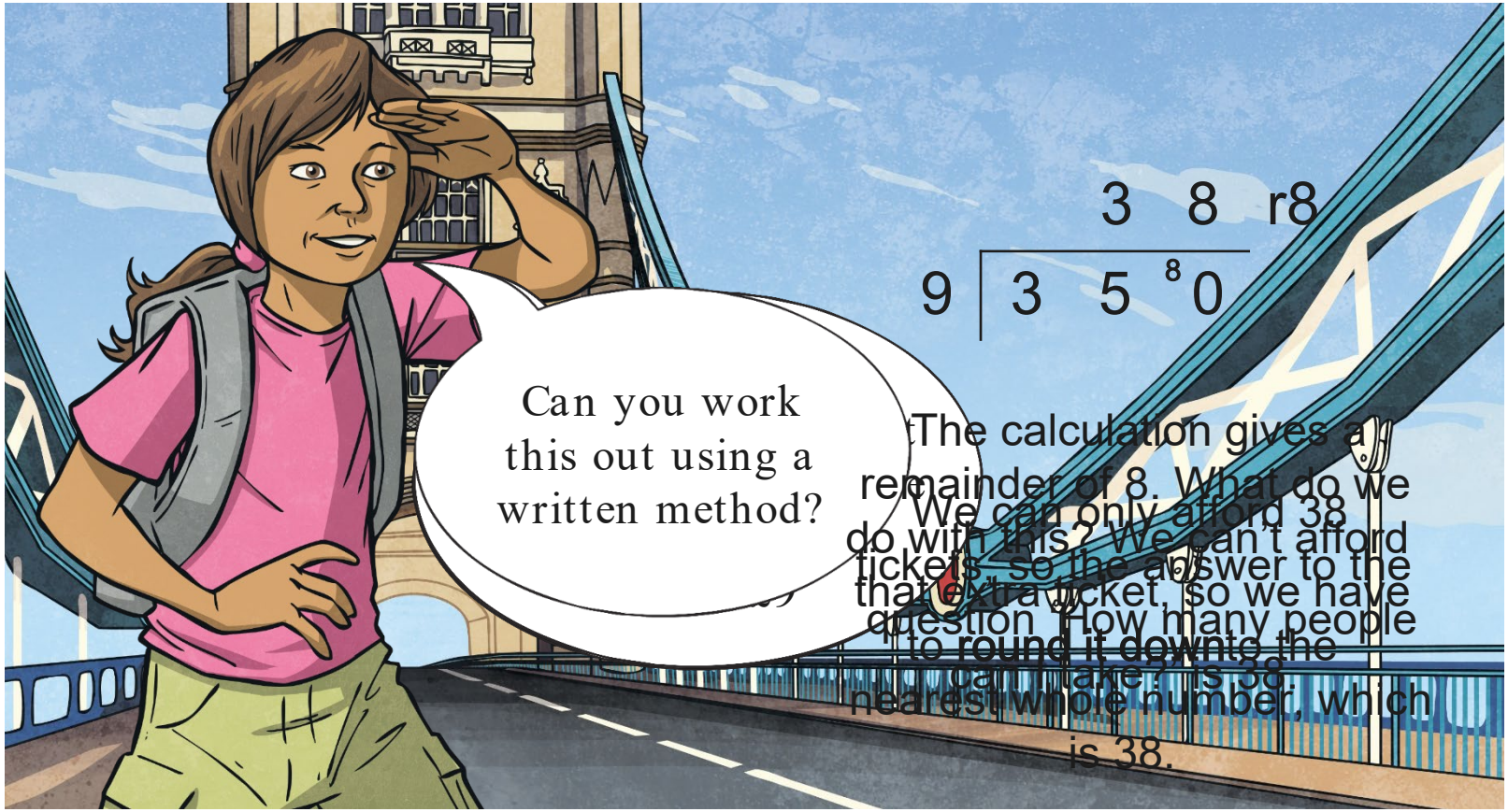
How Many Can I Afford?

Whole Class

I want to organise a trip to London with my youth club. My budget for the train tickets is £350. How many people can I take if each ticket is £9?



$$\begin{array}{r} 3\ 8\ \text{r}8 \\ 9\overline{)3\ 5\ {}^{8}0} \end{array}$$

The calculation gives a remainder of 8. What do we do with this? We can't afford that extra ticket, so we have to round it down to the nearest whole number, which is 38.

We can only afford 38 tickets, so the answer to the question 'How many people can I take?' is 38.

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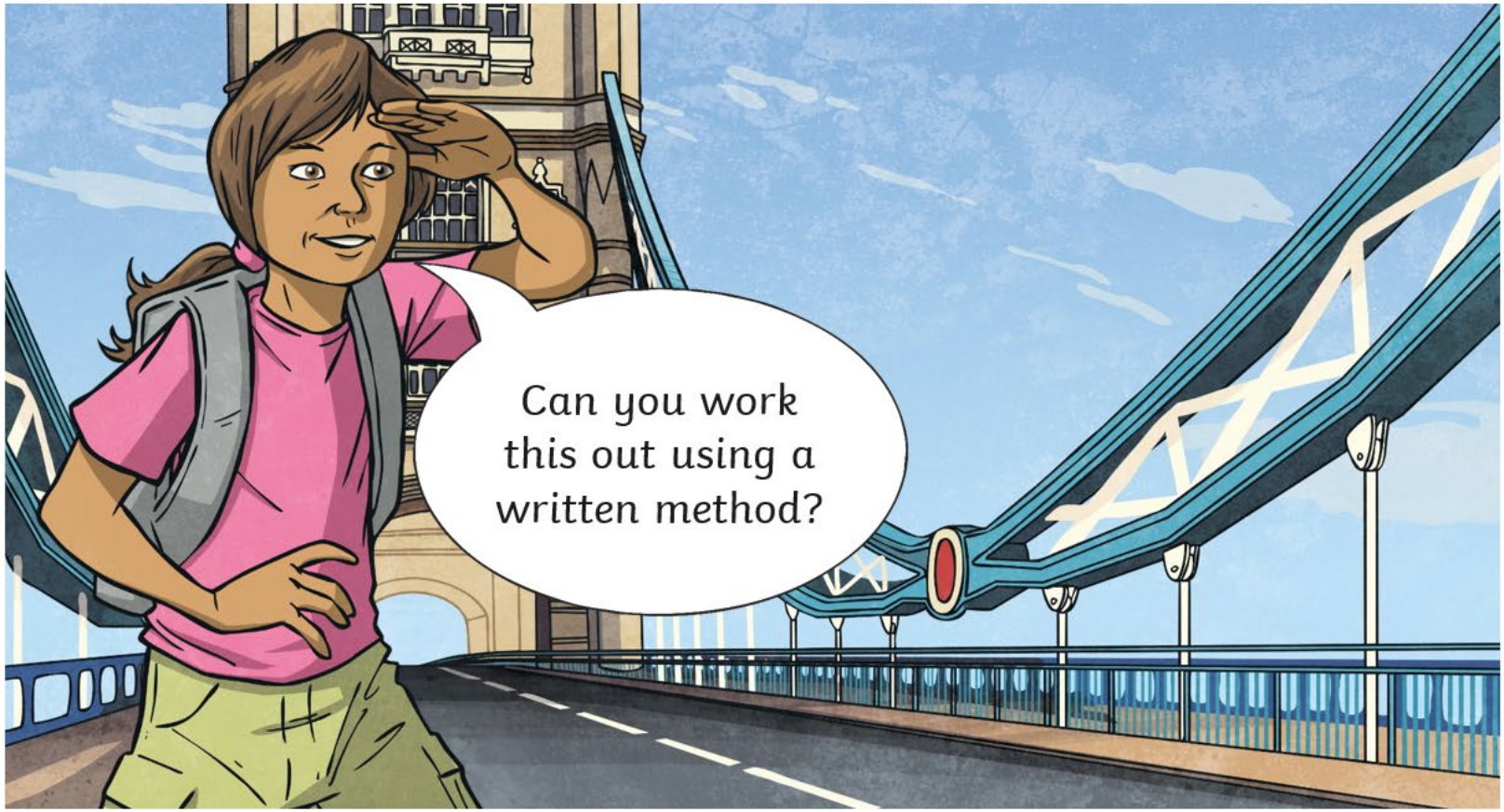

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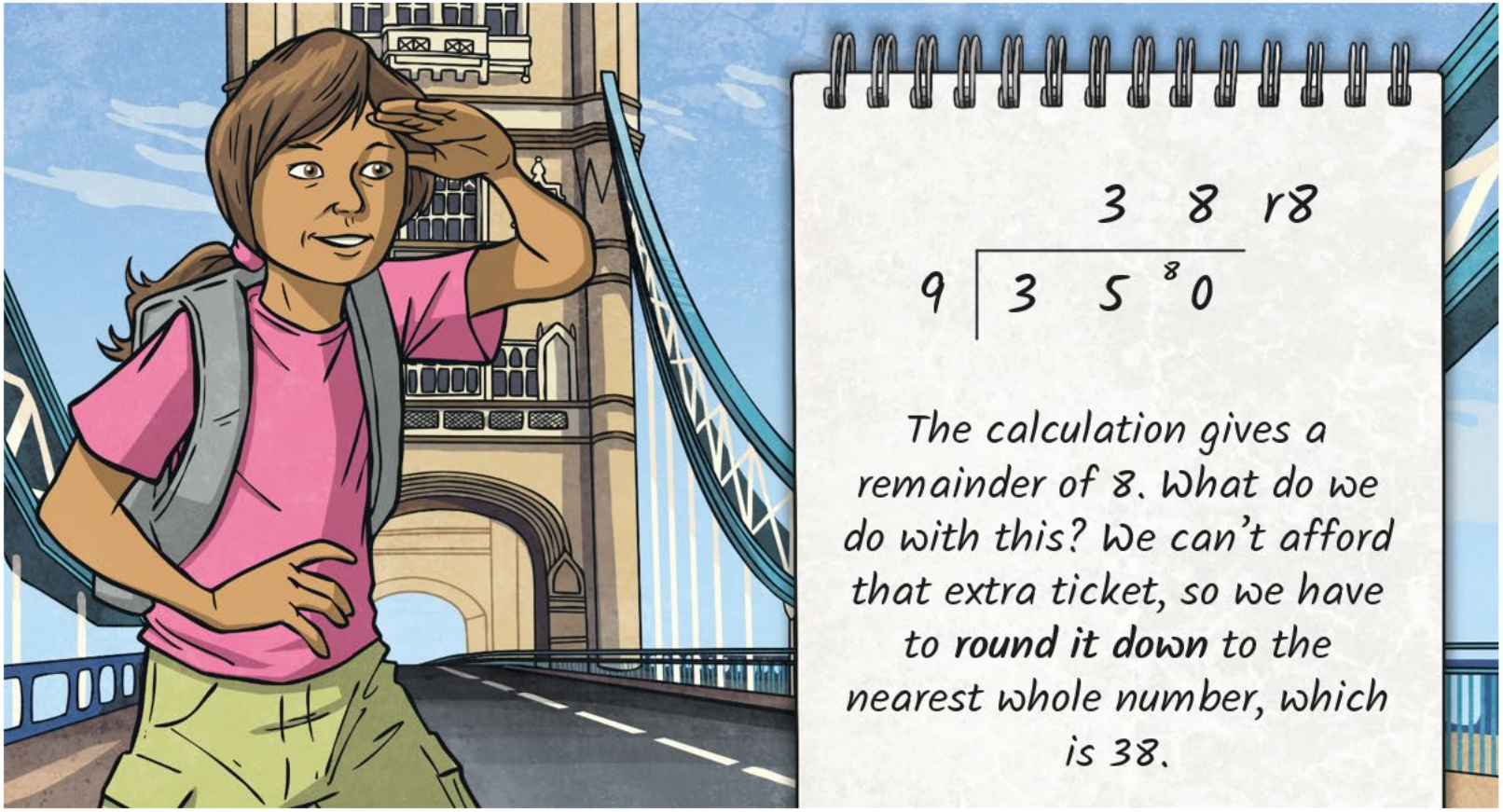

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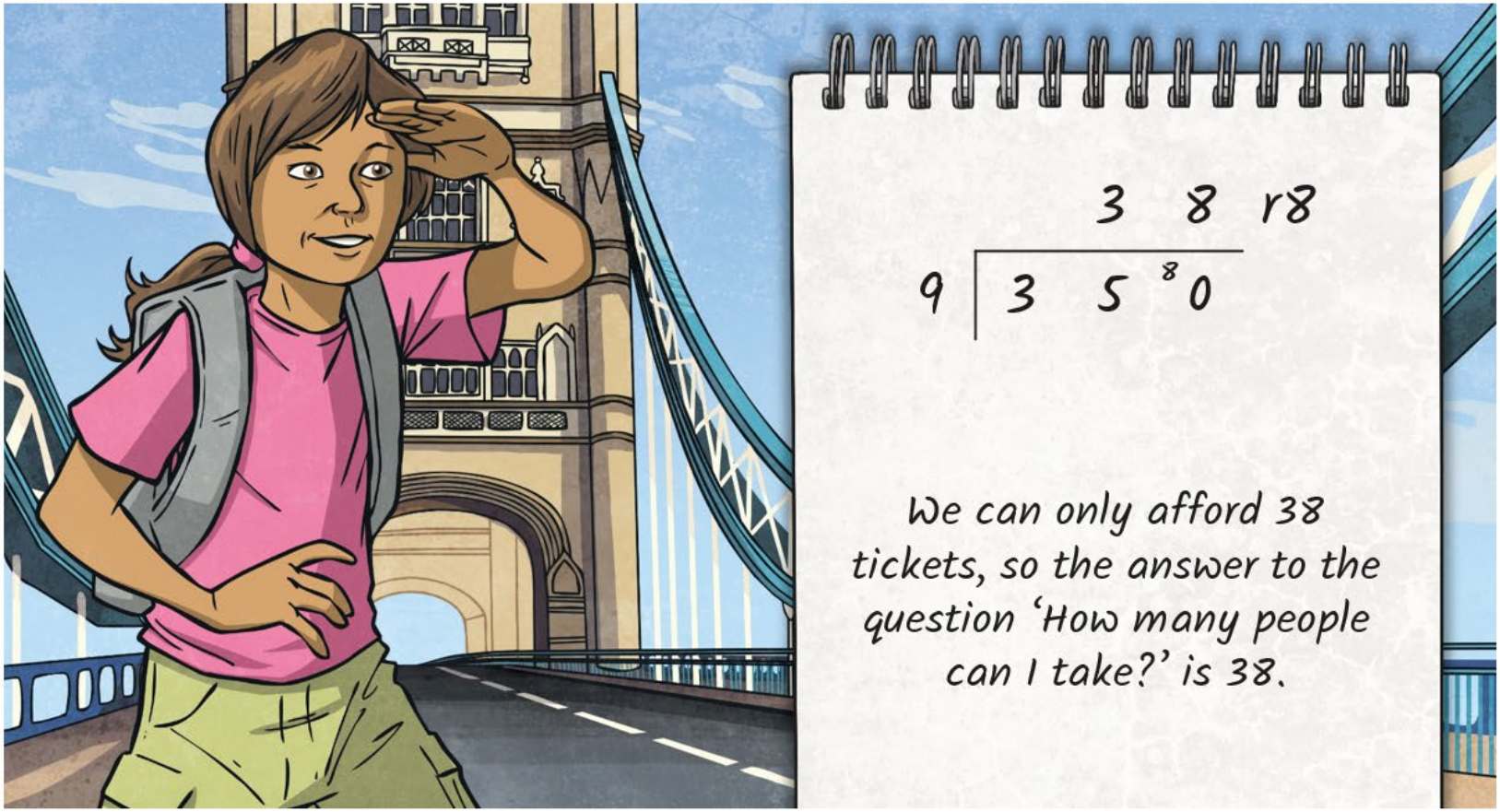

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How Much Does Each Item Cost?

Whole Class

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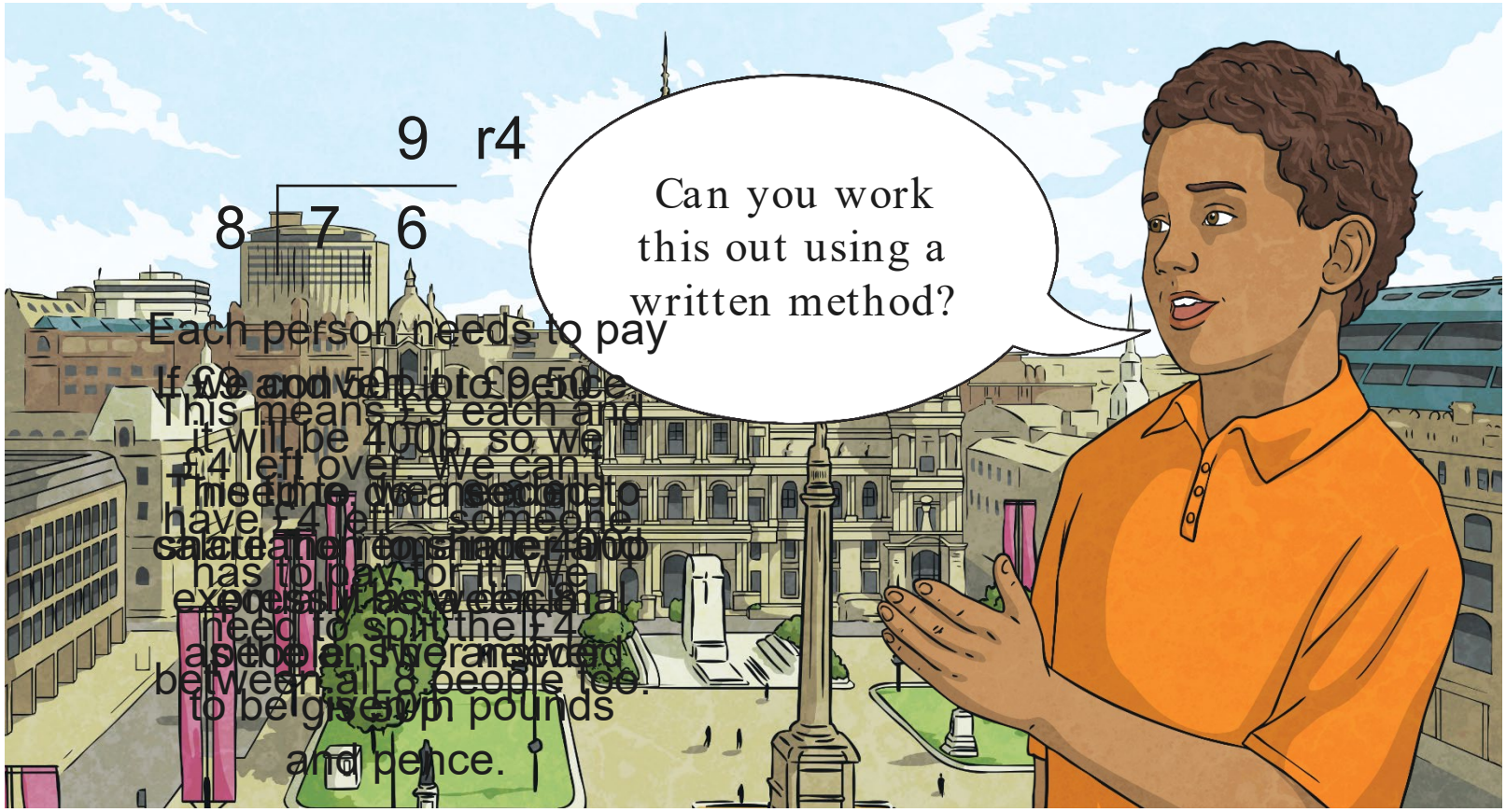

9 r4

8 ⟌ 7 6

Each person needs to pay £9 and 50p to pence.

If we add 50p to pence it will be 400p, so we have £4 left over. We can't split the £4 between all 8 people too. We need to split the £4 and the 400p to be given in pounds and pence.

This means £9 each and £4 left over. We can't have £4 left – someone has to pay for it. We need to split the £4 between all 8 people too.

The one dollar coin is a special coin. It is made of gold and is very valuable. It is also an heirloom and is passed down from generation to generation.

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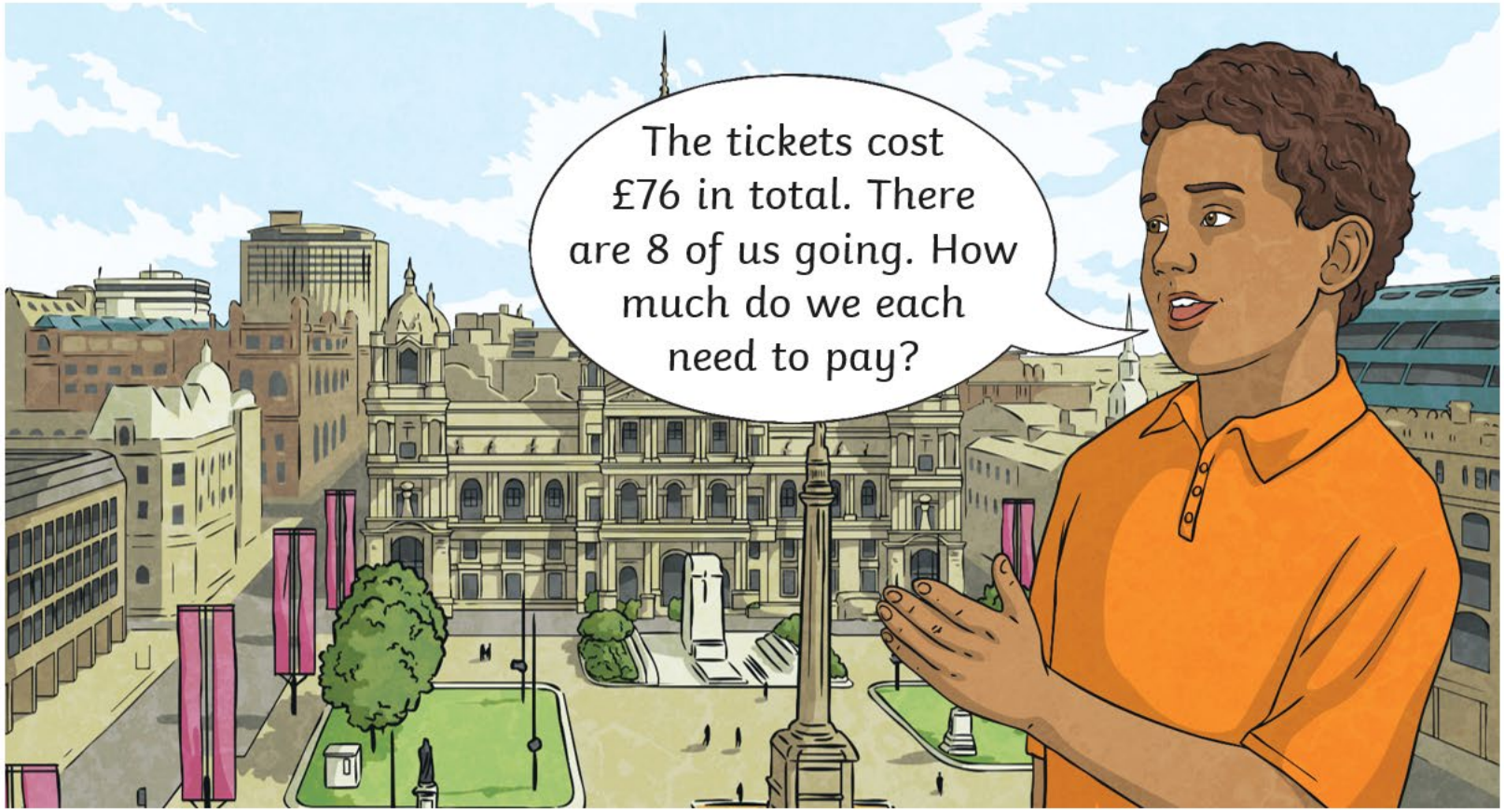

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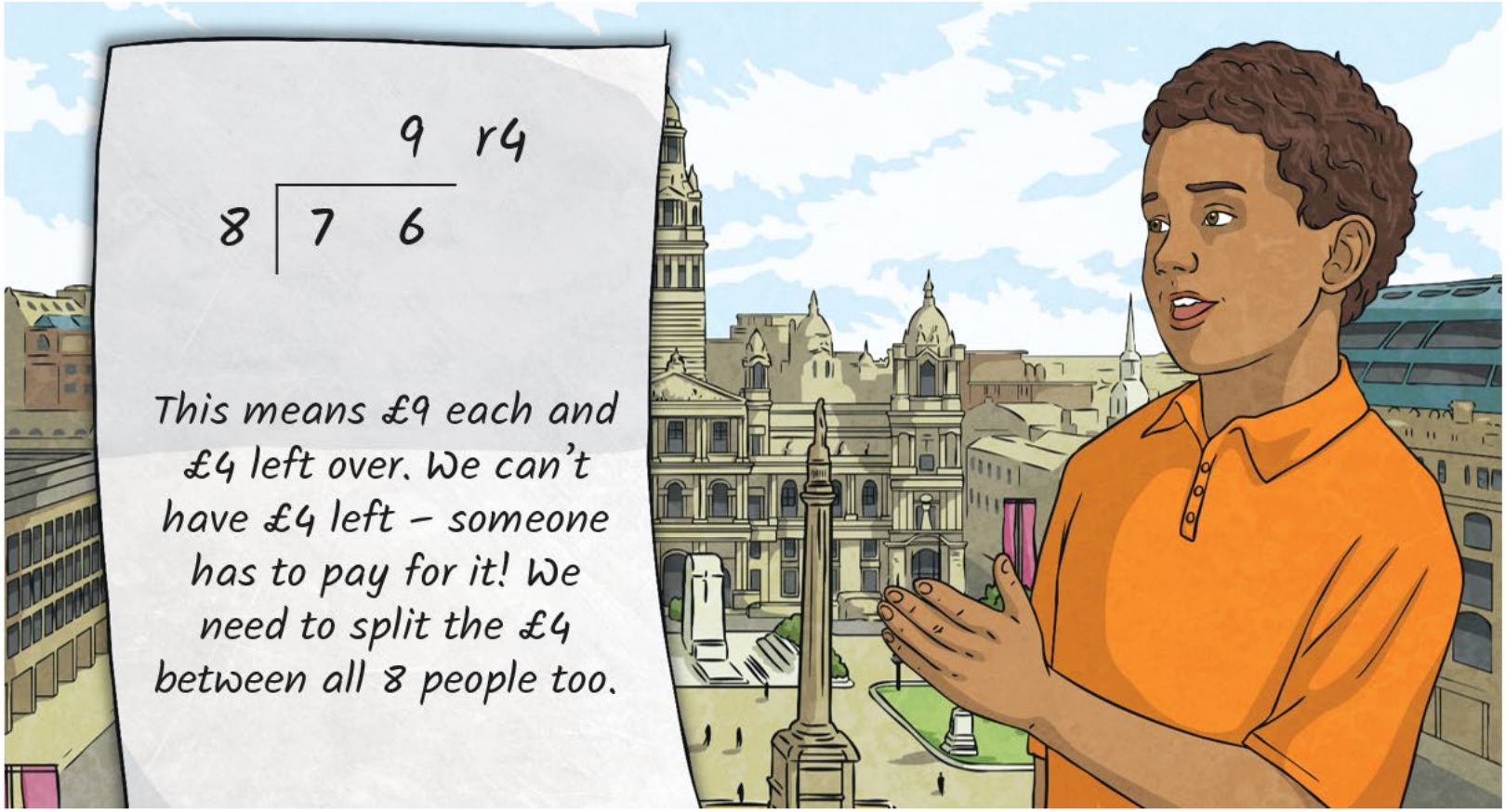

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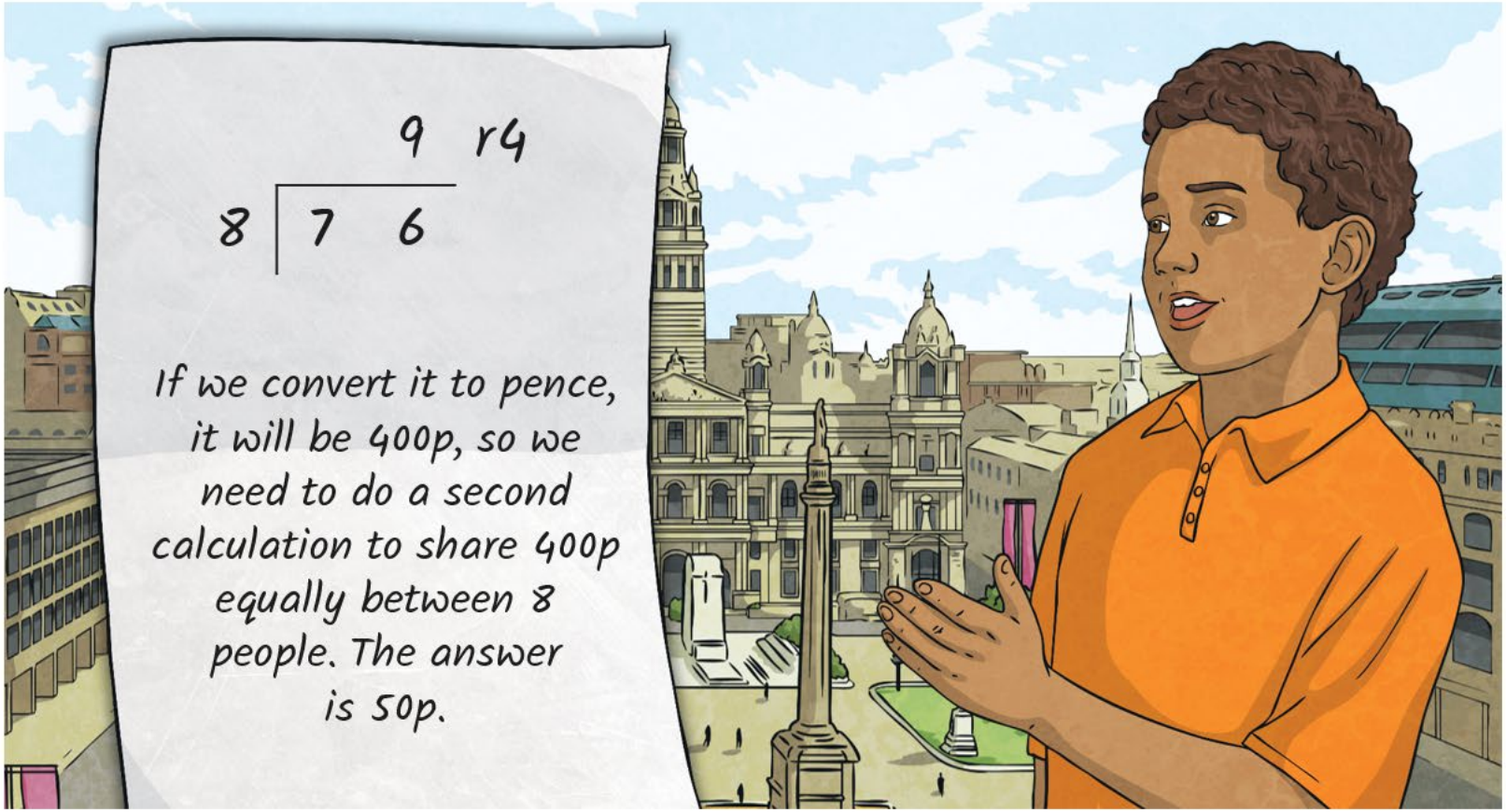

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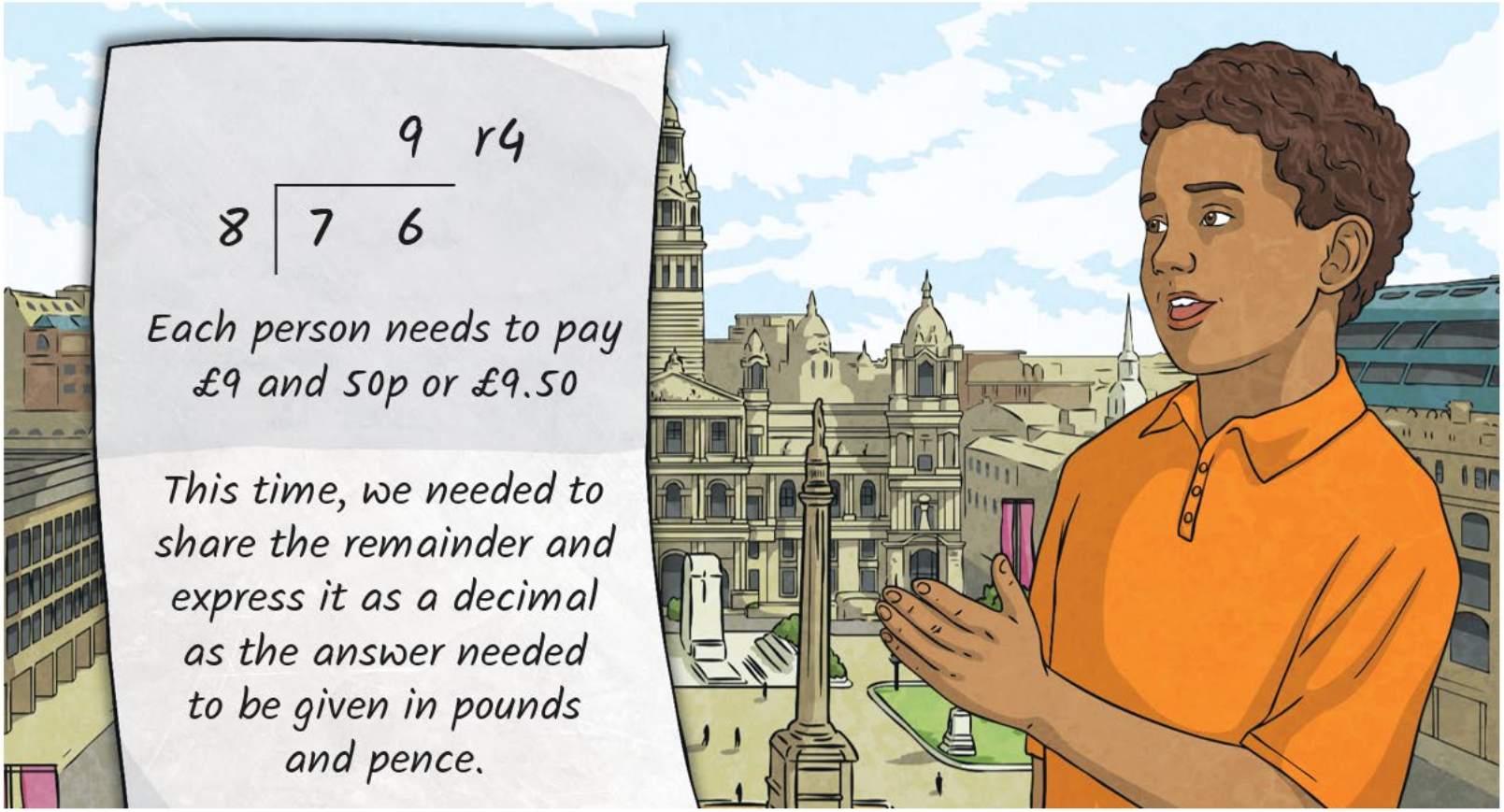

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How Many Do I Need?

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I go to the buffet car to get snacks for all 15 of us.

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Measures

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How long is each carriage on this train?

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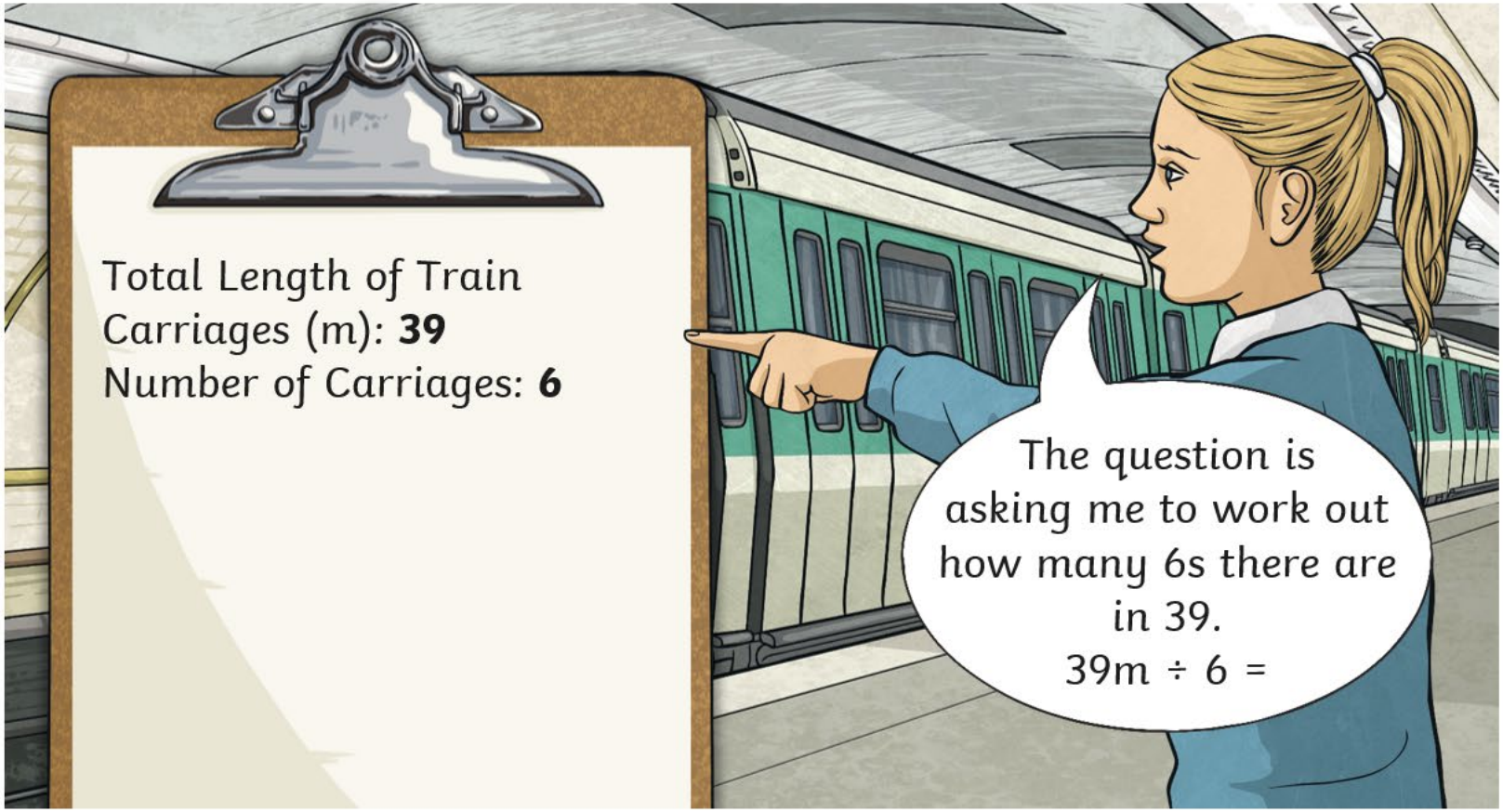

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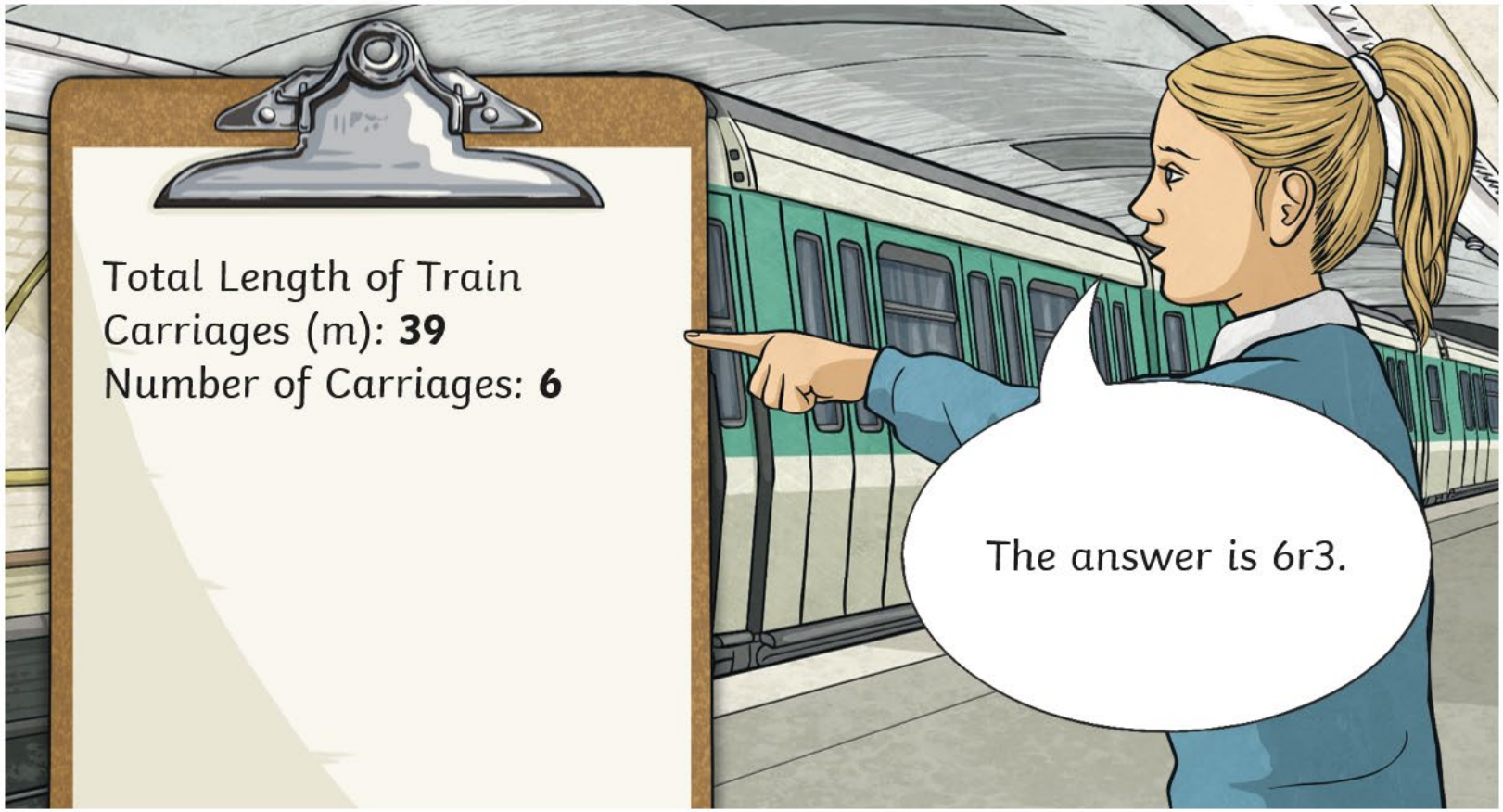

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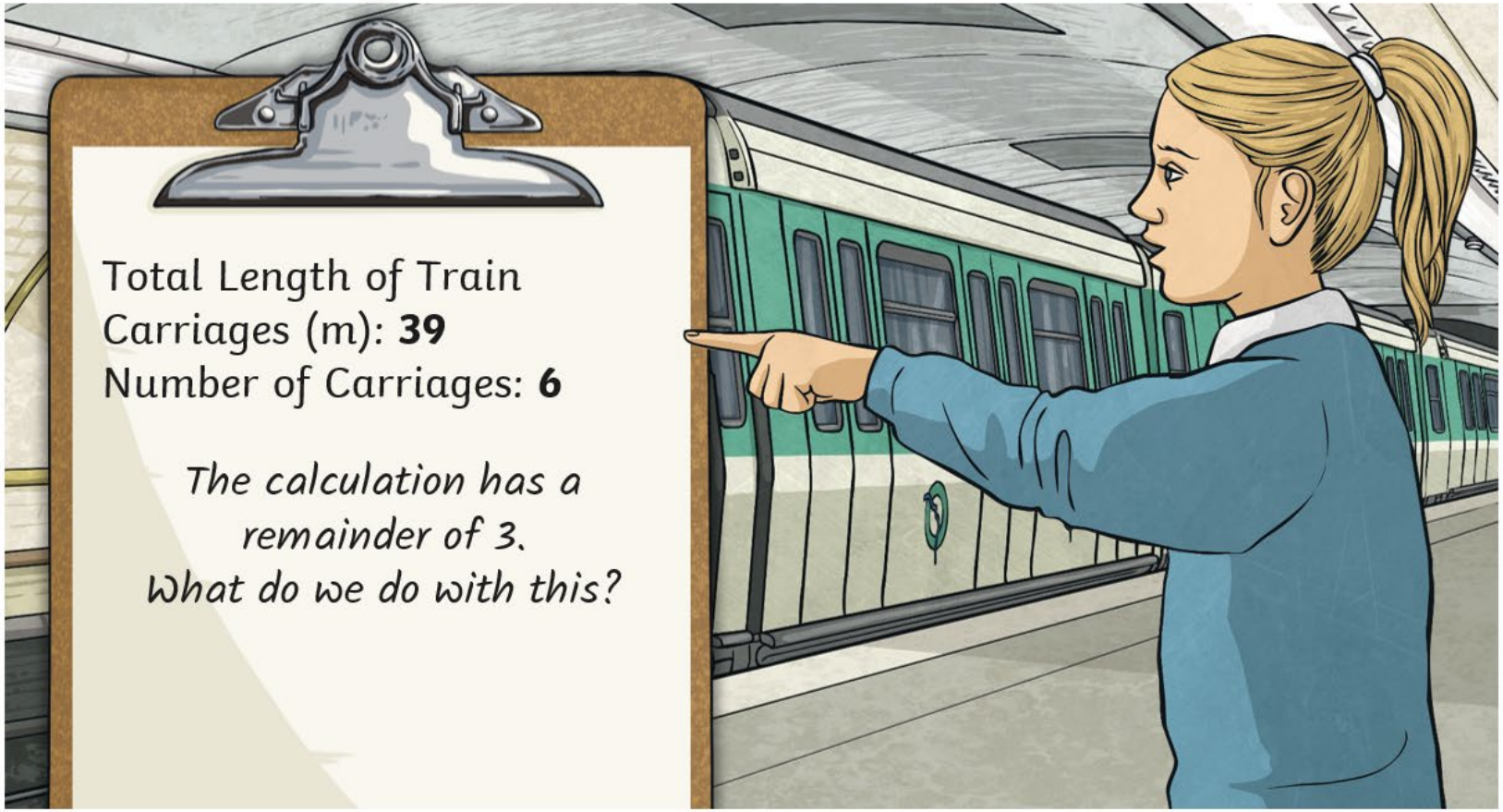

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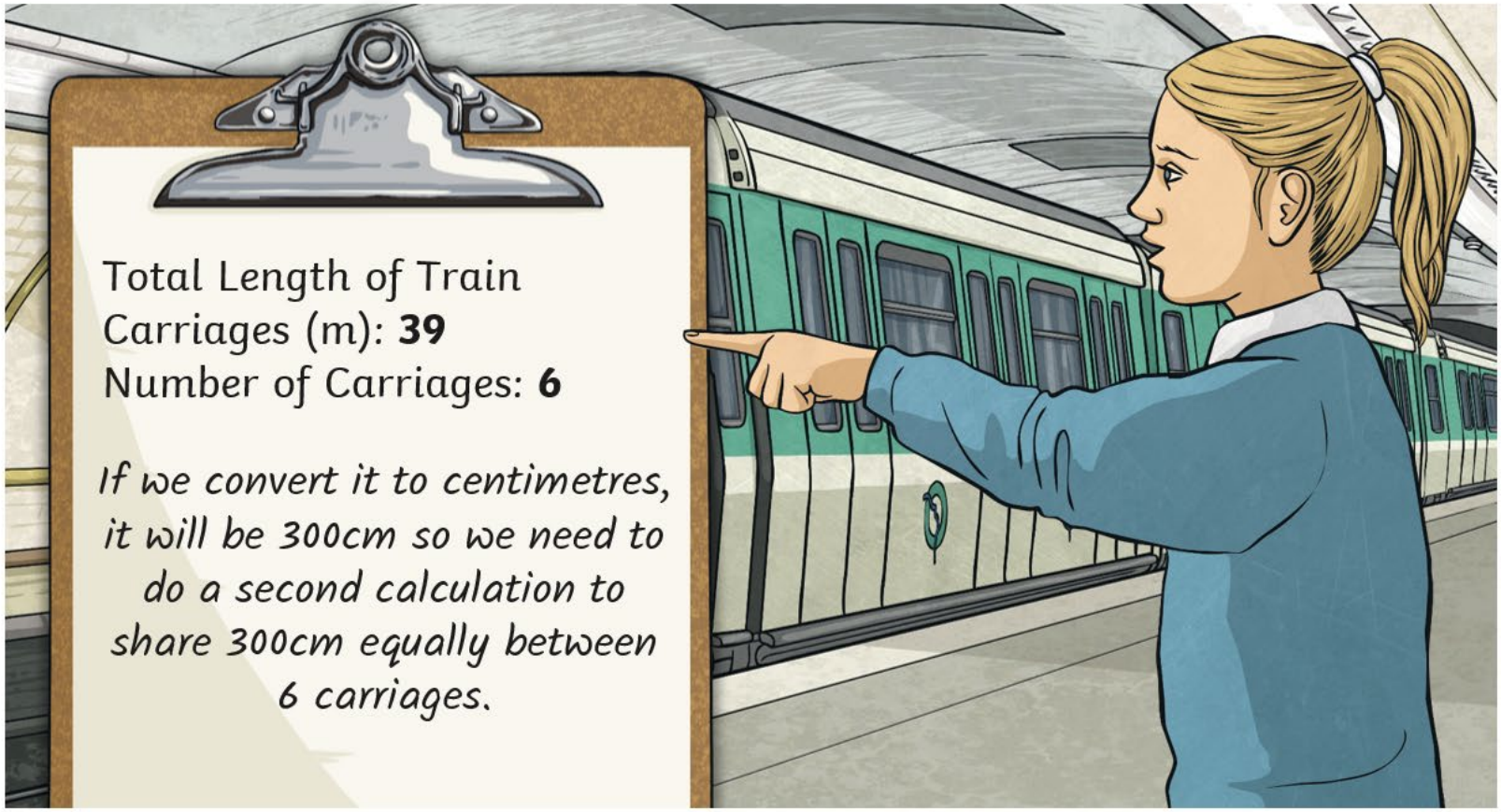

Total Length of Train Carriages (m): **39**
Number of Carriages: **6**

If we convert it to centimetres, it will be 300cm so we need to do a second calculation to share 300cm equally between 6 carriages.

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Measures

Whole Class

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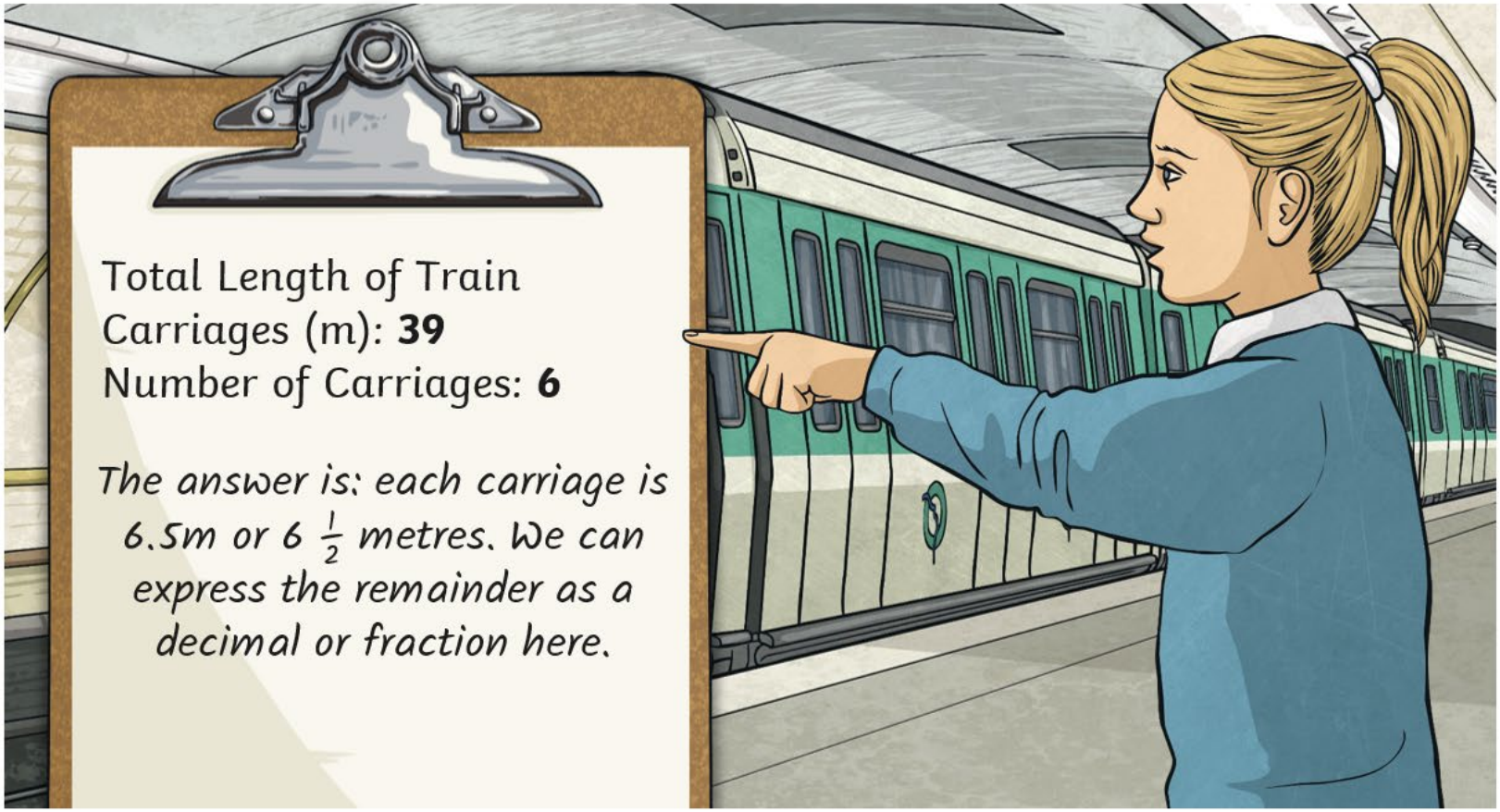

Total Length of Train Carriages (m): **39**
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The answer is: each carriage is 6.5m or 6 $\frac{1}{2}$ metres. We can express the remainder as a decimal or fraction here.

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