Maths

Addition, Subtraction, Multiplication and Division

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Short Division Reasoning

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Aim

- I can solve reasoning questions using the formal method of short division.

Success Criteria

- I can break down complex problems into smaller steps.
- I can use mathematical language to explain solutions to problems.
- I can use the written method for short division accurately.

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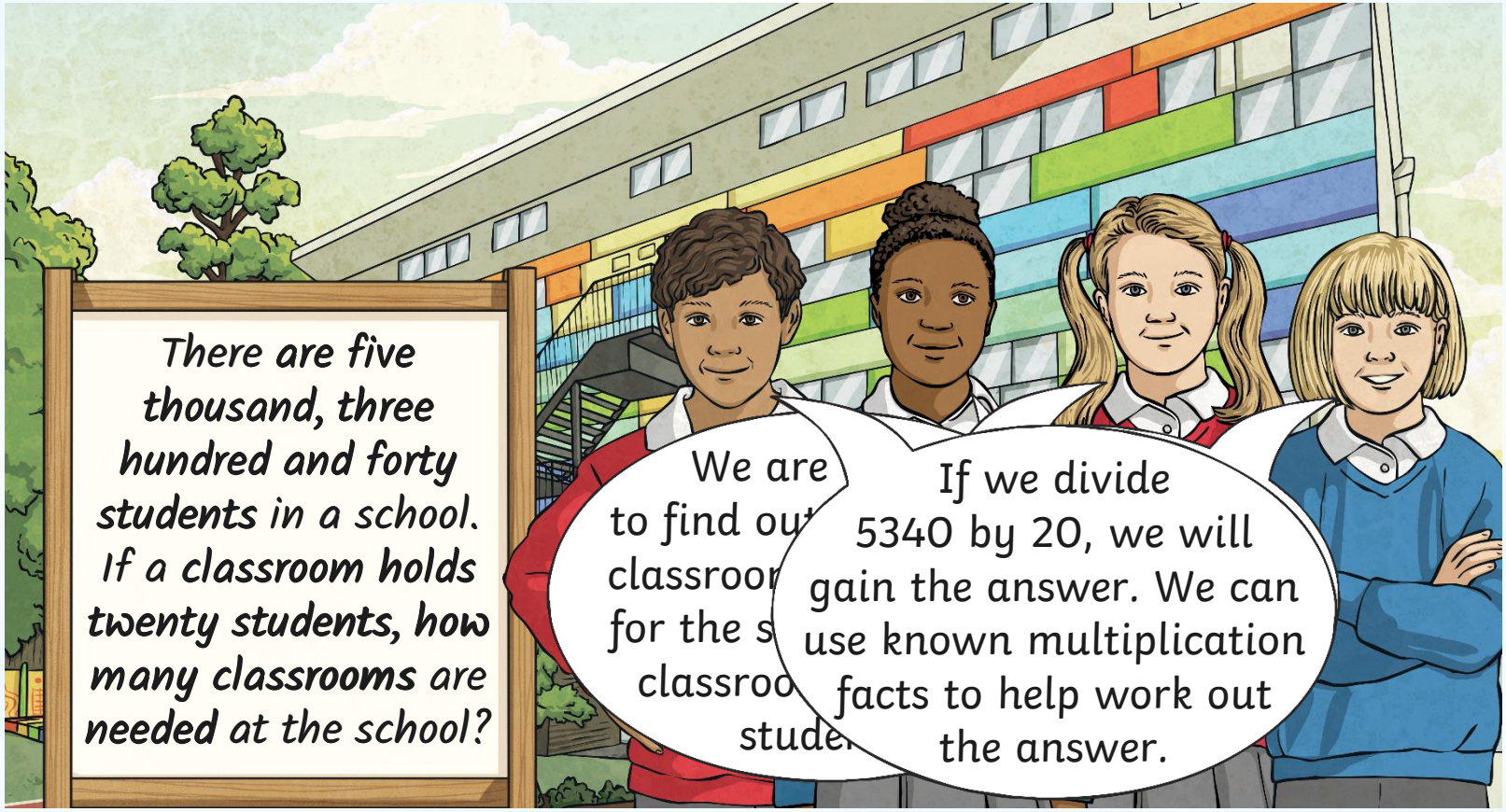
Short Division Reasoning 1a

Read this reasoning question carefully.



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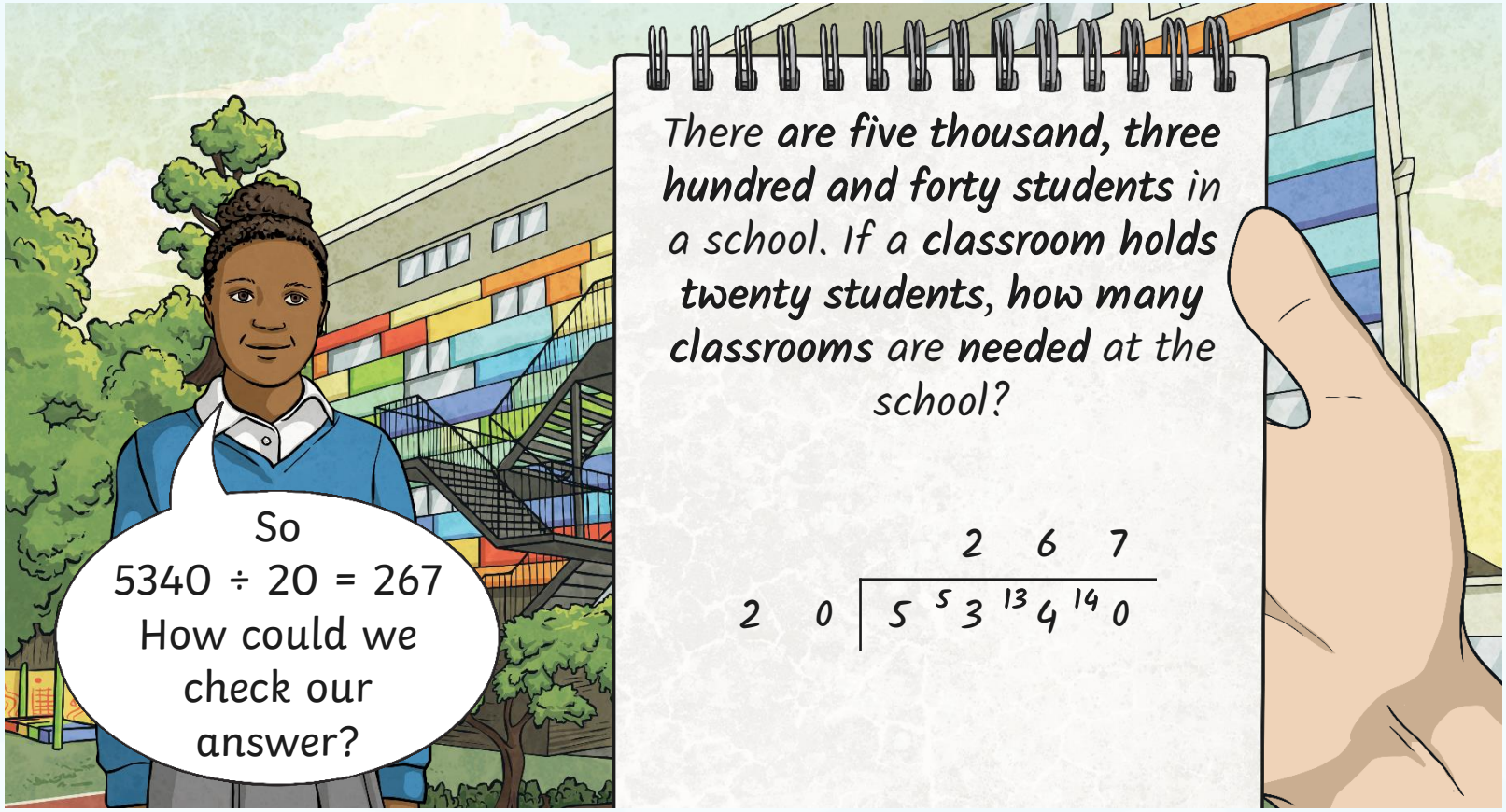
Short Division Reasoning 1a

Now we are ready to apply our learning to solve the problem:



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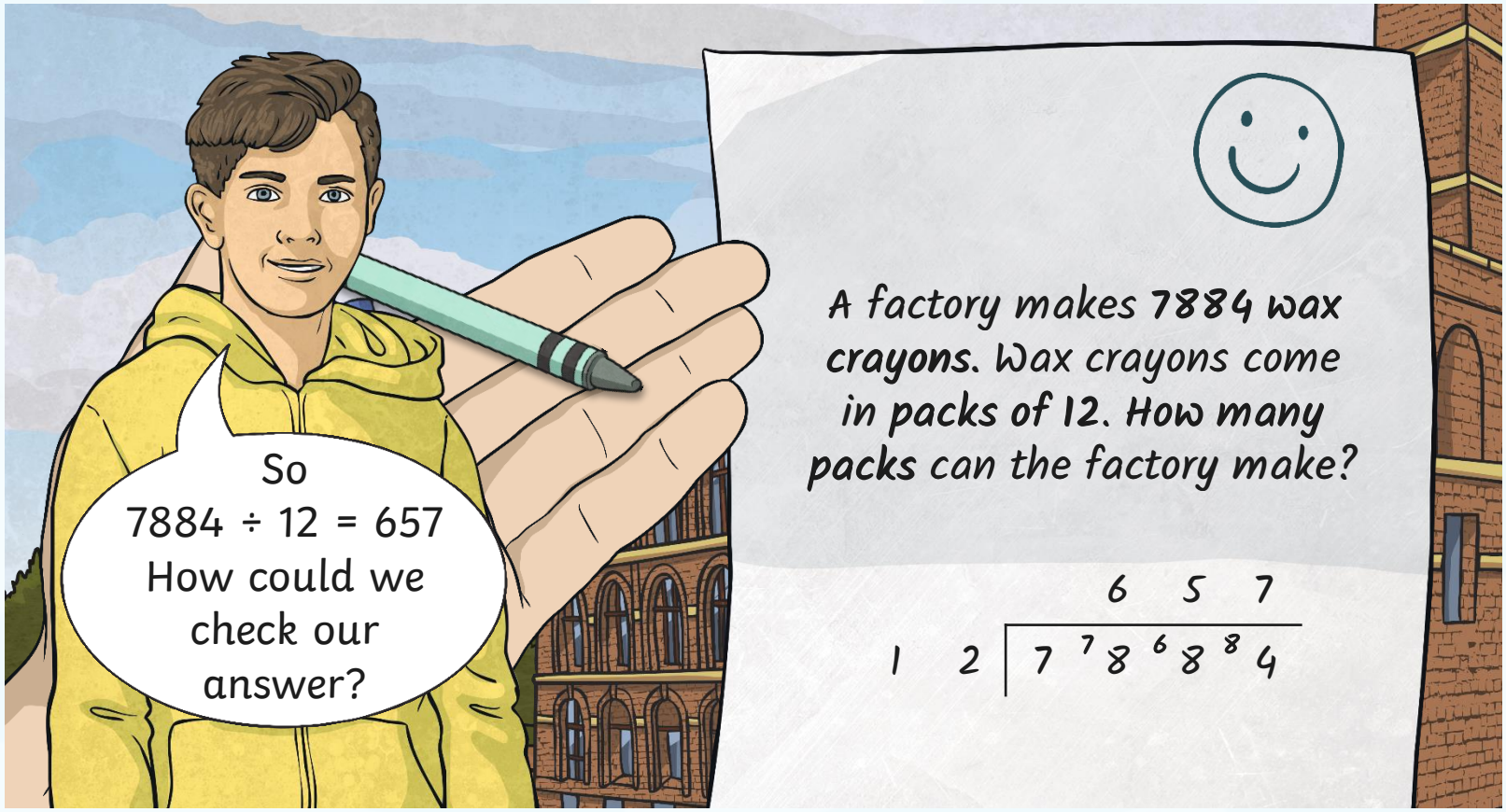
Short Division Reasoning 1b

Working with a partner, use your reasoning skills to solve the first question on your Short Division Talk Partner Activity Sheet.



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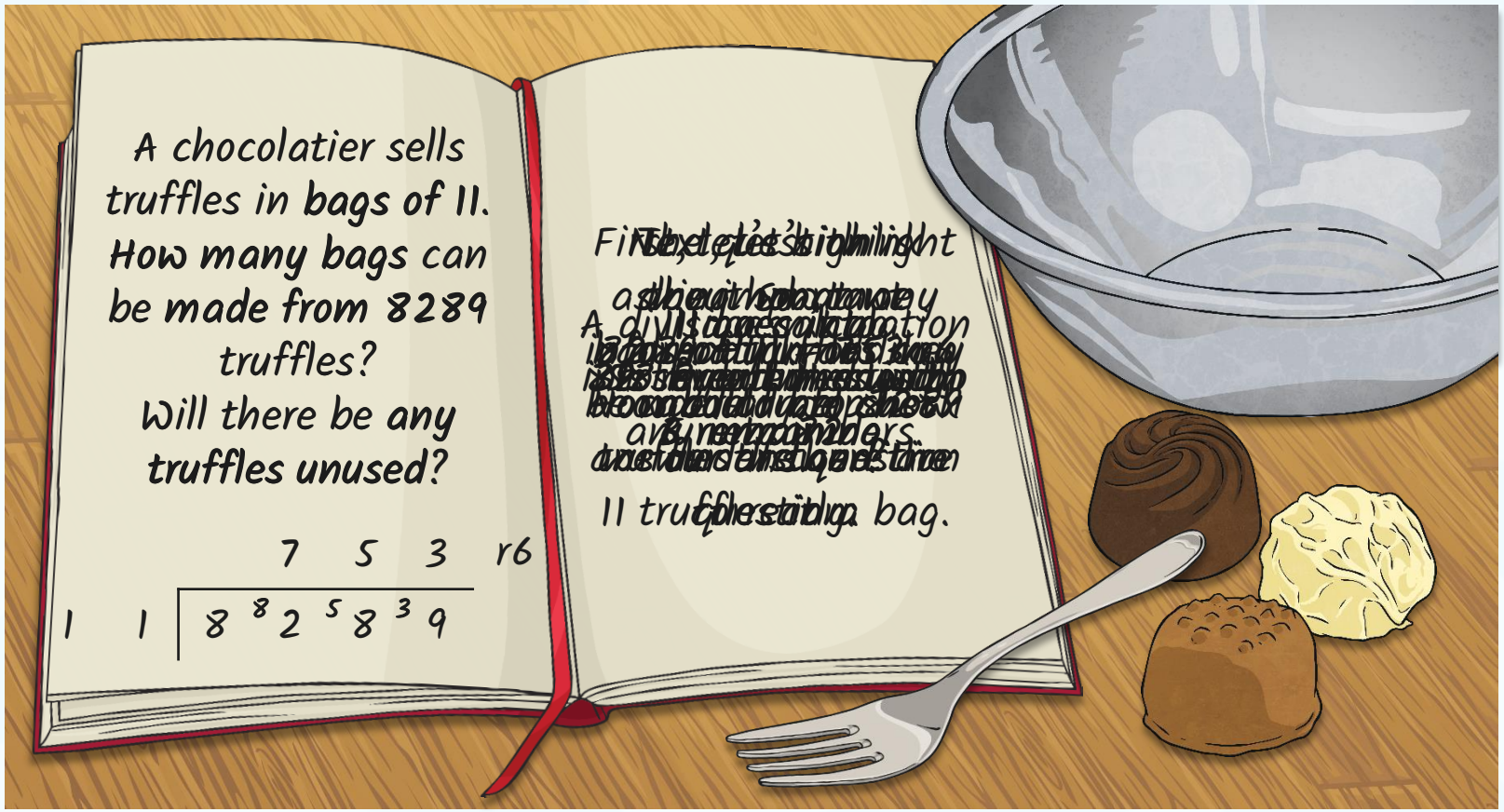
Short Division Reasoning 2a

Read this reasoning question carefully.



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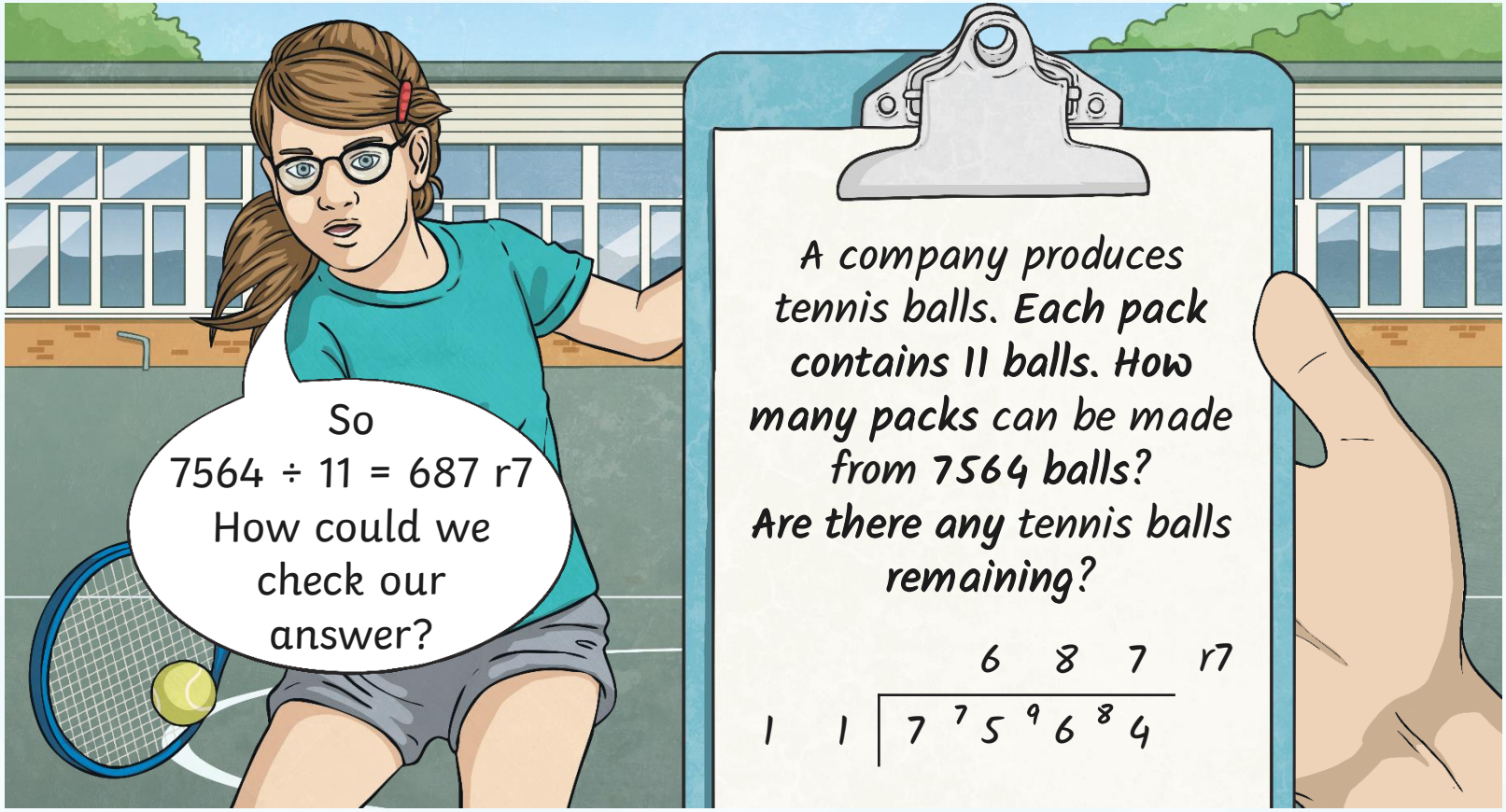
Short Division Reasoning 2b

Working with a partner, use your reasoning skills to solve the second question on your Short Division Talk Partner Activity Sheet.



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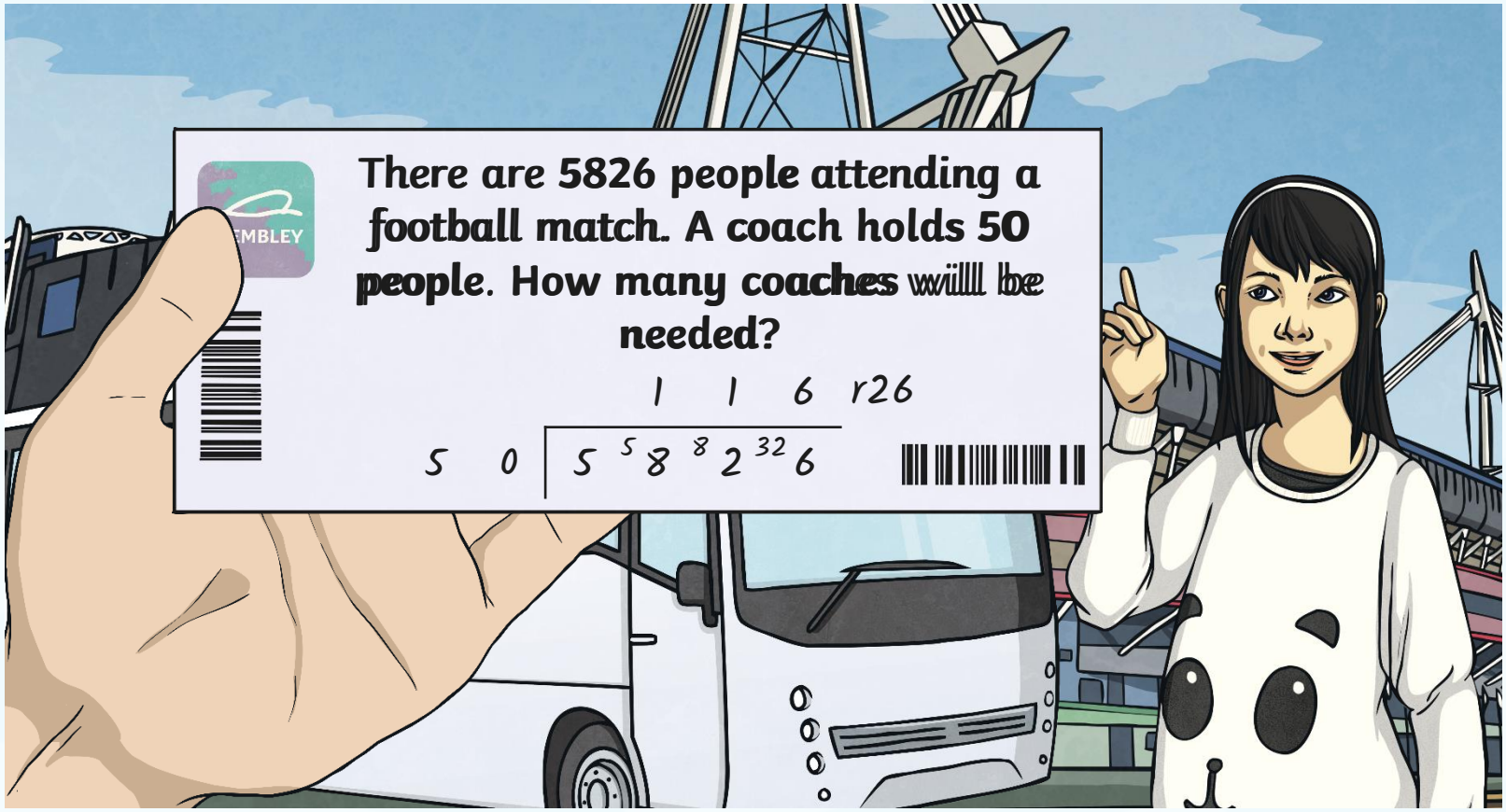
Short Division Reasoning 3a

Read this reasoning question carefully.



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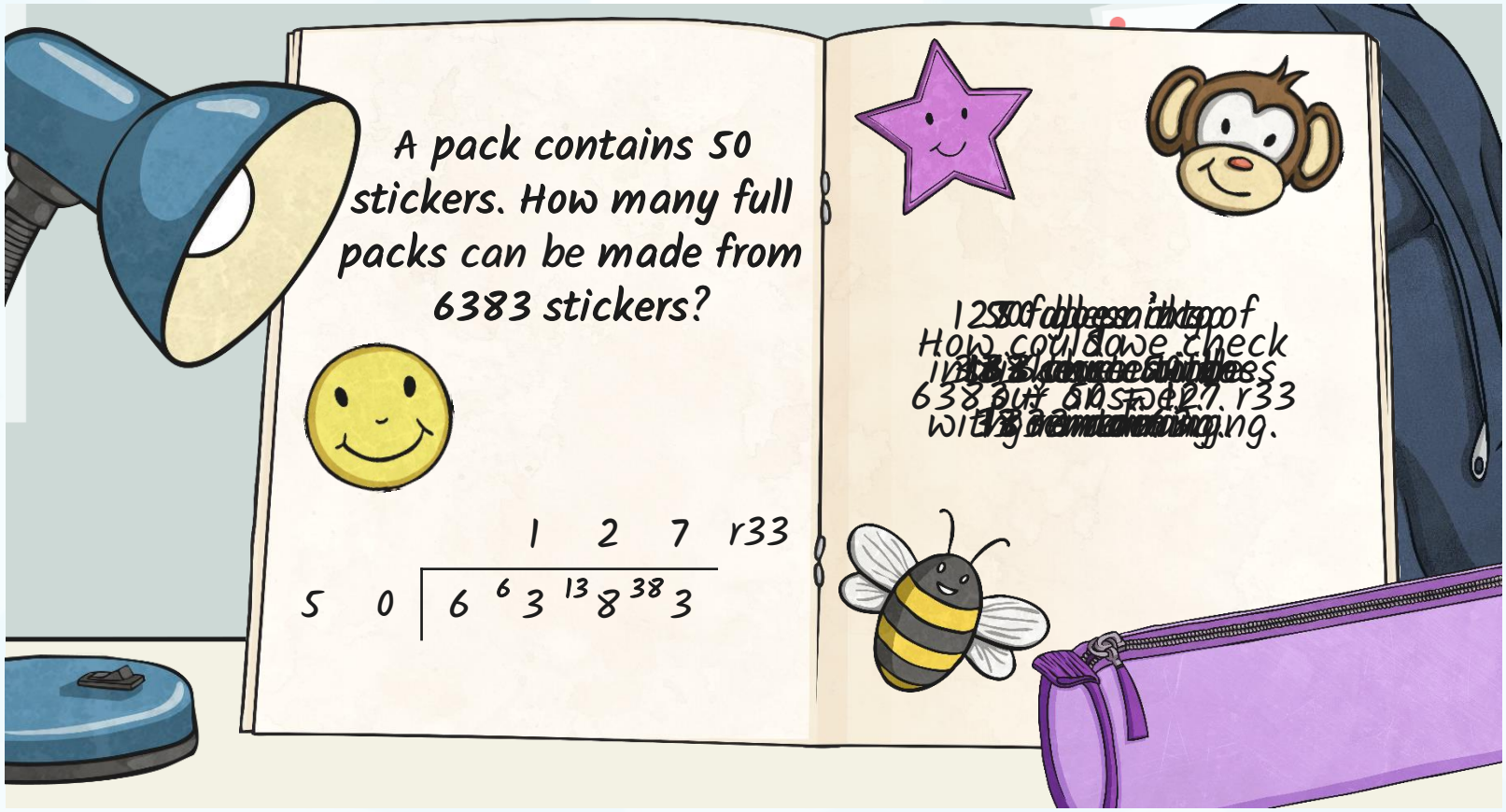
Short Division Reasoning 3b

Working with a partner, use your reasoning skills to solve the third question on your Short Division Talk Partner Activity Sheet.



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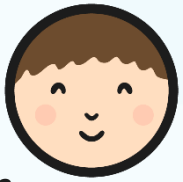
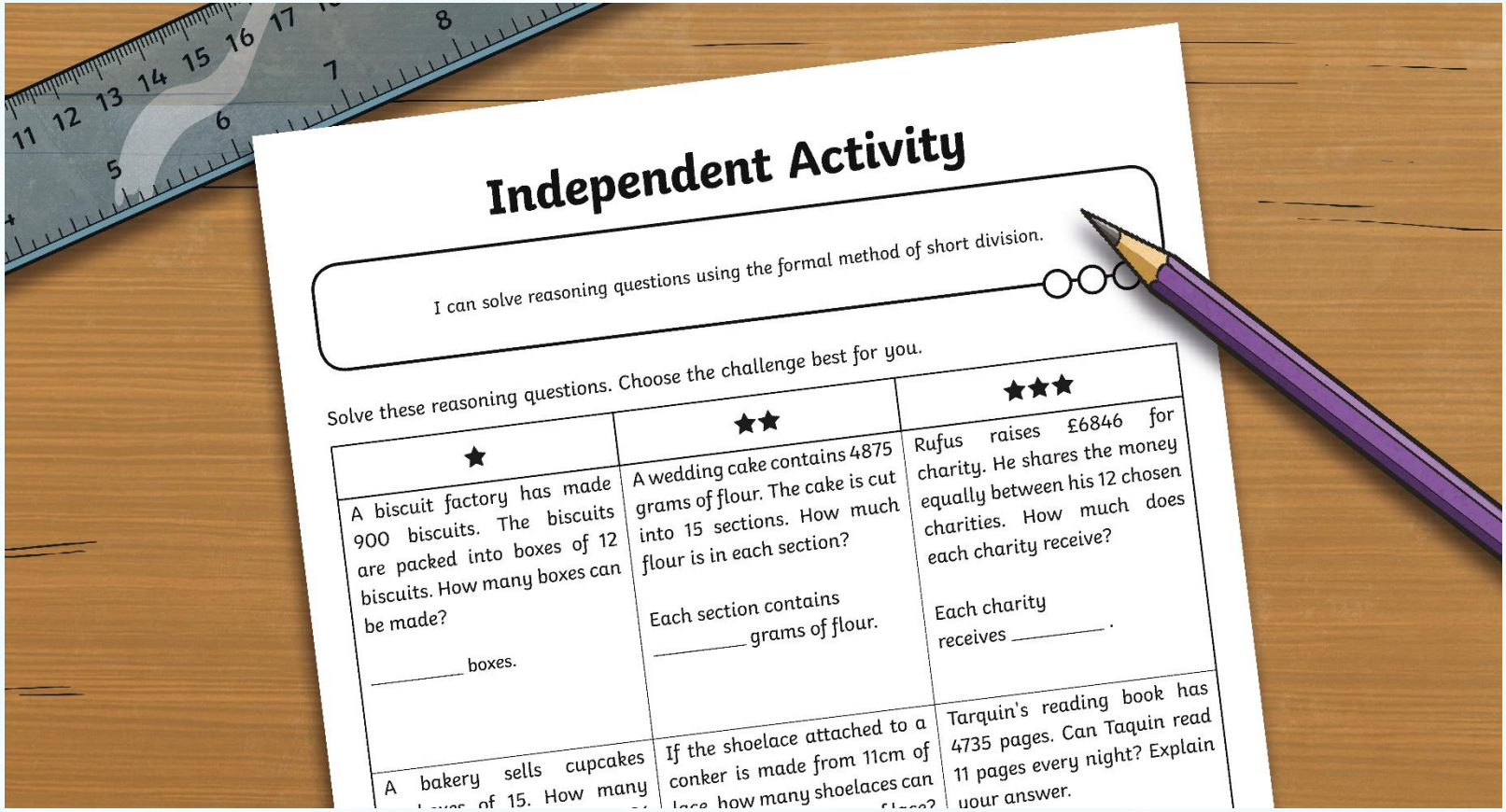
Reasoning Practice



Have a go at independently solving the reasoning questions on your Short Division Independent Activity Sheet.



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Reasoning Answers

Line 1

★	★★	★★★
A biscuit factory has made 900 biscuits. The biscuits are packed into boxes of 12 biscuits. How many boxes can be made? 75 boxes	A wedding cake contains 4875 grams of flour. The cake is cut into 15 sections. How much flour is in each section? Each section contains 325 grams of flour.	Rufus raises £6846 for charity. He shares the money equally between his 12 chosen charities. How much does each charity receive? Each charity receives £570.50.

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Reasoning Answers

Line 2

★	★★	★★★
A bakery sells cupcakes in boxes of 15. How many boxes can be made from 936 cupcakes? Are there any cupcakes remaining? 62 boxes 6 cupcakes remaining.	If the shoelace attached to a conker is made from 11cm of lace, how many shoelaces can be made from 8375cm of lace? How much lace is remaining? 761 shoelaces 4 cm of lace remaining.	Tarquin's reading book has 4735 pages. Can Tarquin read 11 pages every night? Explain your answer. *No – for 430 days, he can read 11 pages a night and for one night, he will read five pages.*

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Reasoning Answers

Line 3

★	★★	★★★
A box holds 12 CDs. How many boxes are needed for 558 CDs? 47 boxes	Eggs are sold in boxes of 12. If a store has 4893 eggs, how many full boxes can be made? 407 boxes	There are 472 adults and 227 children going to London on coaches. Each coach seats 35 people. How many coaches are needed? 20 coaches

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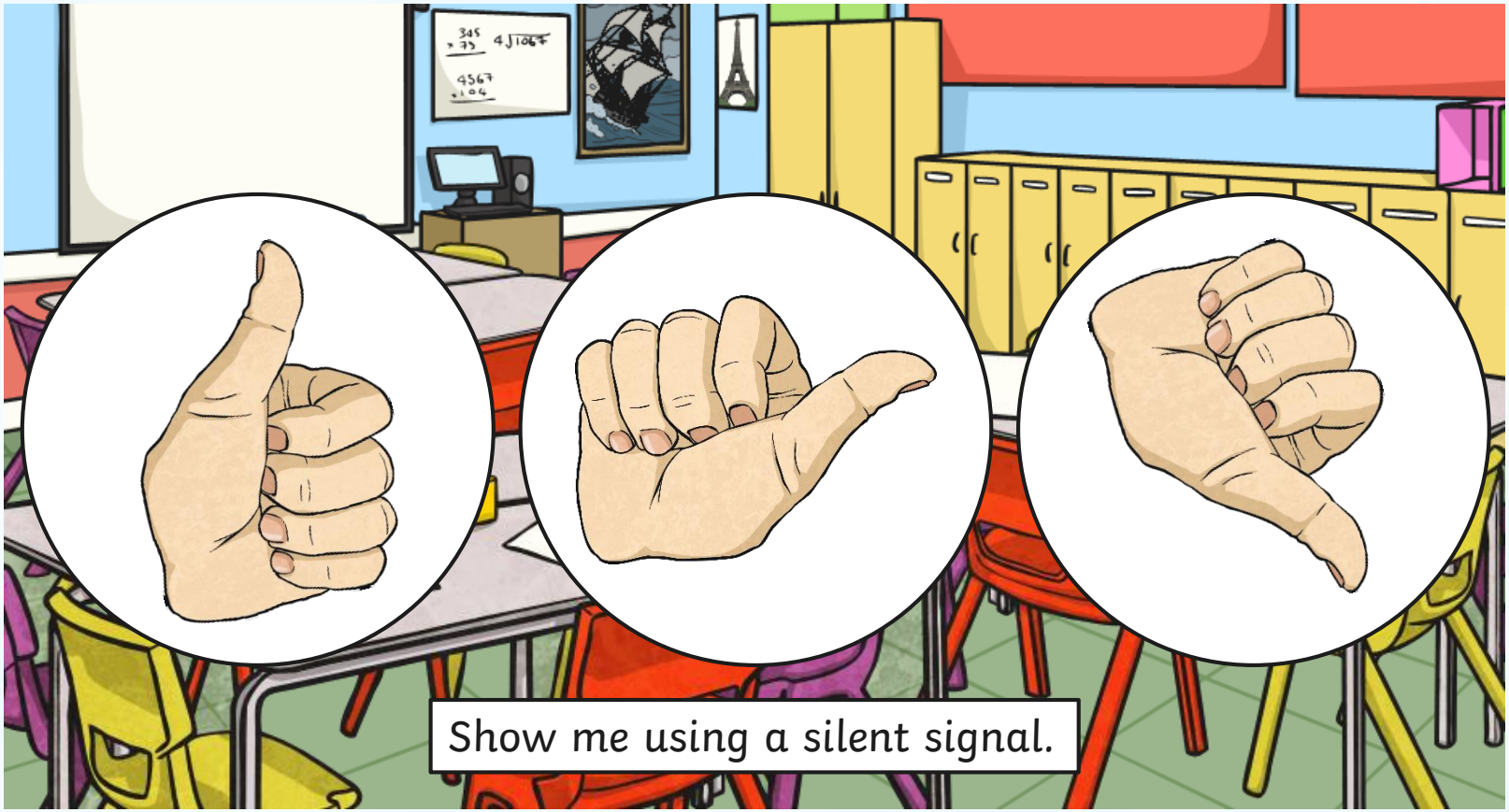
Reasoning Answers

Whole Class

How confident do you feel about using short division to solve reasoning questions?



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