

# Independent Activity

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



Solve these reasoning questions. Choose the challenge best for you.

★	★★	★★★
<p>A biscuit factory has made 900 biscuits. The biscuits are packed into boxes of 12 biscuits. How many boxes can be made?</p> <p>_____ boxes.</p>	<p>A wedding cake contains 4875 grams of flour. The cake is cut into 15 sections. How much flour is in each section?</p> <p>Each section contains _____ grams of flour.</p>	<p>Rufus raises £6846 for charity. He shares the money equally between his 12 chosen charities. How much does each charity receive?</p> <p>Each charity receives _____.</p>
<p>A bakery sells cupcakes in boxes of 15. How many boxes can be made from 936 cupcakes? Are there any cupcakes remaining?</p> <p>_____ boxes. _____ cupcakes remaining.</p>	<p>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?</p> <p>_____ shoelaces. _____ cm of lace remaining.</p>	<p>Tarquin's reading book has 4735 pages. Can Tarquin read 11 pages every night? Explain your answer.</p> <p>_____ _____ _____ _____</p>
<p>A box holds 12 CDs. How many boxes are needed for 558 CDs?</p> <p>_____ boxes.</p>	<p>Eggs are sold in boxes of 12. If a store has 4893 eggs, how many full boxes can be made?</p> <p>_____ boxes.</p>	<p>There are 472 adults and 227 children going to London on coaches. Each coach seats 35 people. How many coaches are needed?</p> <p>_____ coaches.</p>

# Independent Activity Answers

Question	Answer
A biscuit factory has made 900 biscuits. The biscuits are packed into boxes of 12 biscuits. How many boxes can be made?	
★	<b>75</b> 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 <b>325</b> 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 <b>£570.50</b> .
A bakery sells cupcakes in boxes of 15. How many boxes can be made from 936 cupcakes? Are there any cupcakes remaining?	
★	<b>62</b> boxes. <b>6</b> 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?	
★★	<b>761</b> shoelaces. <b>4</b> cm of lace remaining.
Tarquin's reading book has 4735 pages. Can Tarquin read 11 pages every night? Explain your answer.	
★★★	<b>No – for 430 days, he can read 11 pages a night and for one night, he will read five pages.</b>
A box holds 12 CDs. How many boxes are needed for 558 CDs?	
★	<b>47</b> boxes.

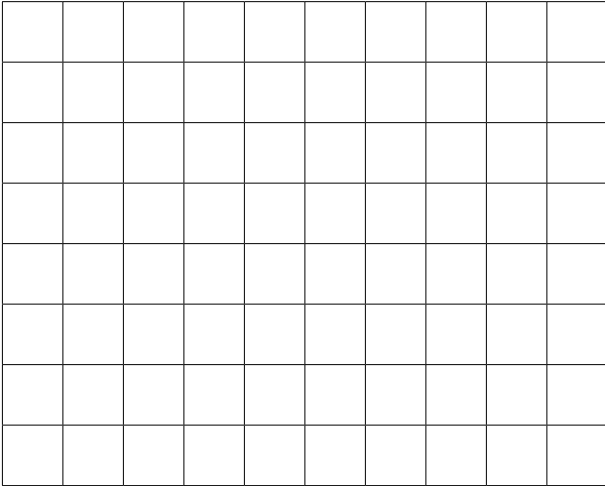
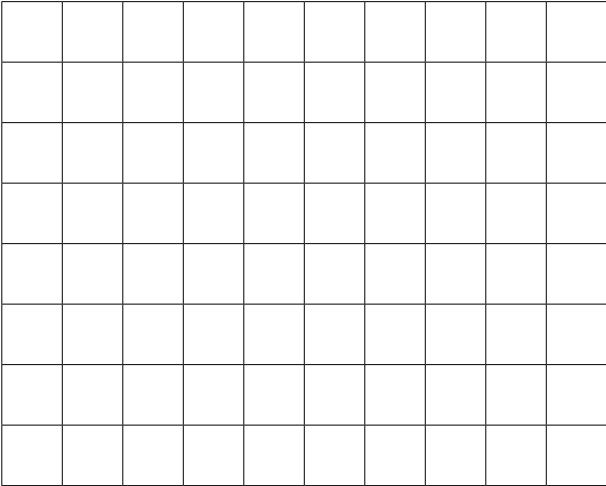
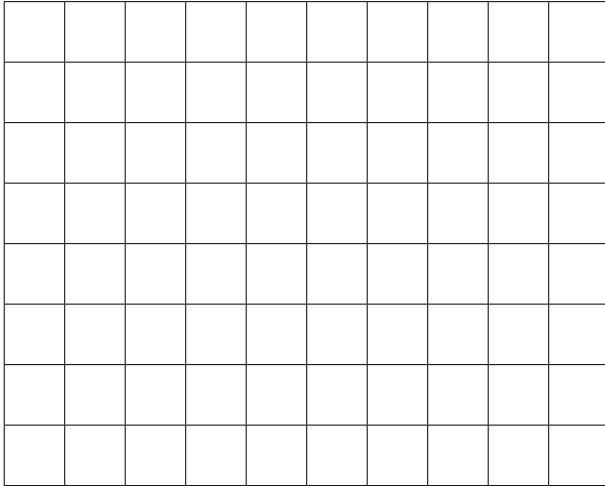
Eggs are sold in boxes of 12. If a store has 4893 eggs, how many full boxes can be made?	
★★	<b>407</b> boxes.
There are 472 adults and 227 children going to London on coaches. Each coach seats 35 people. How many coaches are needed?	
★★★	<b>20</b> coaches.

# Talk Partner Activity

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



Work with your partner to discuss and solve these reasoning questions.

<p>A factory makes 7884 wax crayons. Wax crayons come in packs of 12. How many packs can the factory make?</p>	<p>A company produces tennis balls. Each pack contains 11 balls. How many packs can be made from 7564 balls? Are there any tennis balls remaining?</p>	<p>A pack contain 50 stickers. How many full packs can be made from 6383 stickers?</p>
<p>Use this space for jottings:</p>  <p>_____ packs.</p>	<p>Use this space for jottings:</p>  <p>_____ packs. _____ tennis balls reamining.</p>	<p>Use this space for jottings:</p>  <p>_____ packs.</p>

# Talk Partner Activity Answers

Question	Answer
1.	A factory makes 7884 wax crayons. Wax crayons come in packs of 12. How many packs can the factory make?
<b>657</b> packs.	
2.	A company produces tennis balls. Each pack contains 11 balls. How many packs can be made from 7564 balls? Are there any tennis balls remaining?
<b>687</b> packs. <b>7</b> tennis balls remaining.	
3.	A packs contain 50 stickers. How many full packs can be made from 6383 stickers?
<b>127</b> packs.	