Discussion Problems
Step 15: Subtract 2 Mixed Numbers

Teaching note: For Q1, an A3 copy on card and scissors may be necessary.

National Curriculum Objectives:

Mathematics Year 5: (5F2a) Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5]
Mathematics Year 5: (5F4) Add and subtract fractions with the same denominator and denominators that are multiples of the same number

About this resource:

This resource has been designed for pupils who understand the concepts within this step. It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

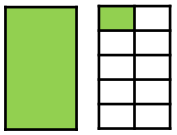
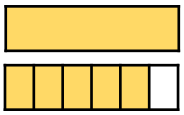
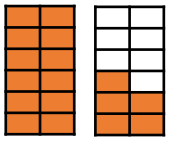
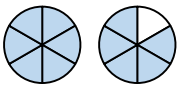
We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More Year 5 Fraction resources.

Did you like this resource? Don't forget to review it on our website.

Subtract 2 Mixed Numbers

1. Arrange the loop cards so that each calculation is matched to the correct answer. Fill in the blank card to complete the loop. Denominators must always be different.

$1\frac{7}{10}$	$5\frac{1}{6} - 3\frac{3}{4}$
$1\frac{9}{20}$	$6\frac{3}{6} - 5\frac{2}{5}$
	$4\frac{1}{2} - 2\frac{2}{3}$
	$3\frac{1}{5} - 1\frac{3}{4}$
$1\frac{7}{\ }$	$6\frac{1}{3} - 4\frac{2}{4}$
	$4\frac{2}{8} - 2\frac{2}{3}$
$1\frac{5}{\ }$	$4\frac{5}{6} - 2\frac{3}{4}$
	$4\frac{3}{4} - 3\frac{3}{9}$

DP

2. Blake and Pamela are taking part in their school's reading challenge.
Use the clues to work out how many whole books and what fraction of their current book each child has read. How much more does Pamela have to read to catch up with Blake?

Blake

The fraction I have read has an odd denominator but an even numerator. I have read an odd number of whole books. I have read more than Pamela.

Pamela

The fraction I have read has a denominator which is a square number and a numerator which is prime. I have read an even number of whole books.

DP

Subtract 2 Mixed Numbers

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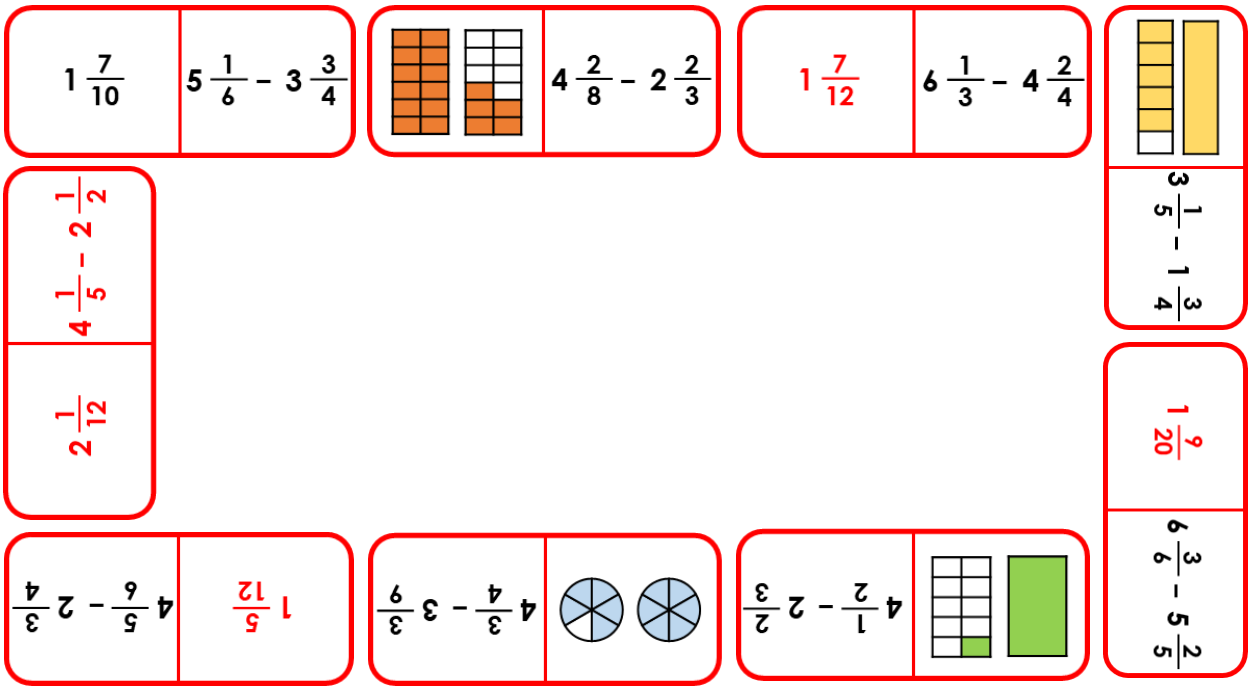
Various answers, for example:



DP

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Use the clues to work out how many whole books and what fraction of their current book each child has read. How much more does Pamela have to read to catch up with Blake?

Blake

The fraction I have read has an odd denominator but an even numerator. I have read an odd number of whole books. I have read more than Pamela.

Pamela

The fraction I have read has a denominator which is a square number and a numerator which is prime. I have read an even number of whole books.

Various answers, for example:

Blake could have read $3\frac{2}{3}$ books and Pamela could have read $2\frac{3}{4}$. Pamela needs to read $\frac{11}{12}$ more to catch up with Blake.

DP