# <u>Reasoning and Problem Solving</u> <u>Step 15: Subtract 2 Mixed Numbers</u>

# 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

# **Differentiation:**

Questions 1, 4 and 7 (Reasoning)

Developing Identify and explain the odd one out from 3 mixed number subtraction calculations where the denominator is double or half of the starting fraction. Expected Identify and explain the odd one out from 3 mixed number subtraction calculations where the denominators are direct multiples of each other. Greater Depth Identify and explain the odd one out from 3 mixed number subtraction calculations where the denominators are not direct multiples but share a common factor.

#### Questions 2, 5 and 8 (Problem Solving)

**Developing** Use the digit cards to complete the mixed number subtraction calculation where the denominator is double or half of the starting fraction.

Expected Use the digit cards to complete the mixed number subtraction calculation where the denominators are direct multiples of each other.

Greater Depth Use the digit cards to complete the mixed number subtraction calculation where the denominators are not direct multiples but share a common factor.

#### Questions 3, 6 and 9 (Reasoning)

Developing Explain the mistake made when subtracting 2 mixed numbers where the denominator is double or half of the starting fraction.

Expected Explain the mistake made when subtracting 2 mixed numbers where the denominators are direct multiples of each other.

Greater Depth Explain the mistake made when subtracting 2 mixed numbers where the denominators are not direct multiples but share a common factor.

# More <u>Year 5 Fractions</u> resources.

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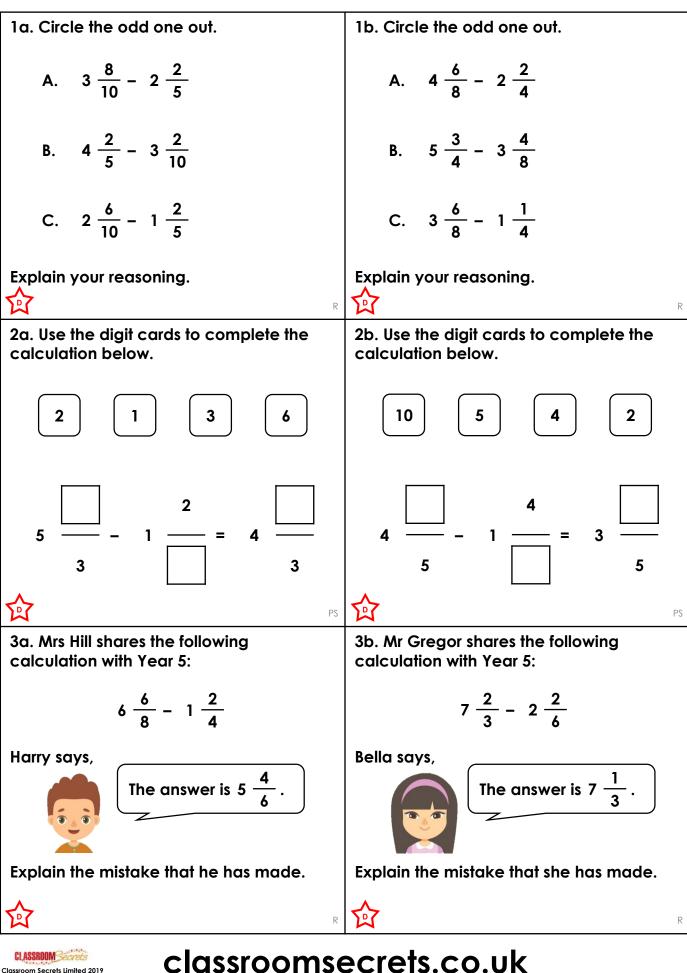


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Reasoning and Problem Solving – Subtract 2 Mixed Numbers – Teaching Information

# Subtract 2 Mixed Numbers

## Subtract 2 Mixed Numbers

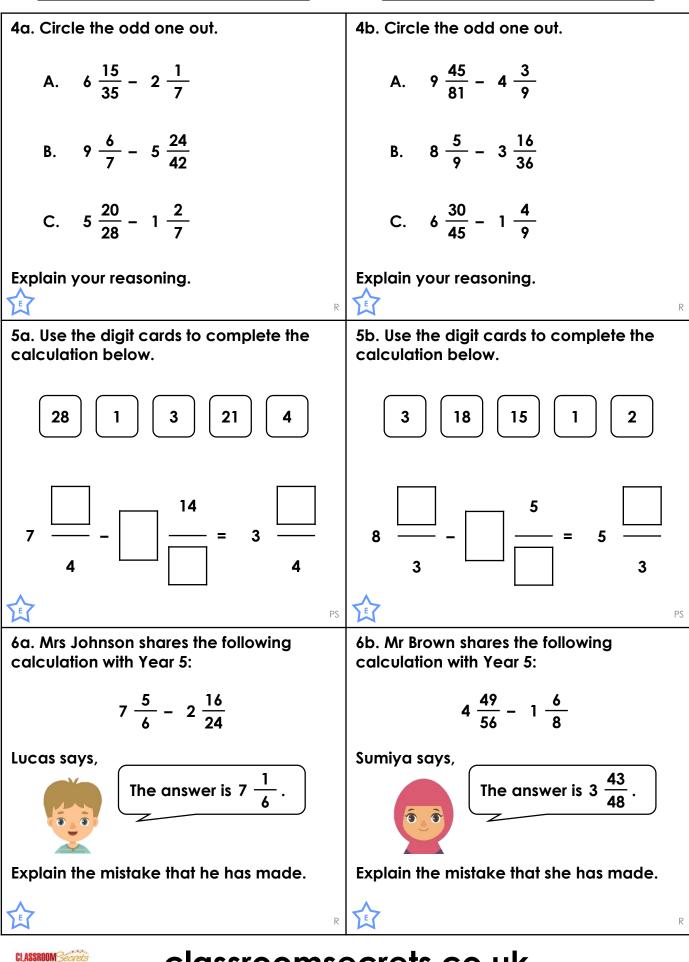


Reasoning and Problem Solving – Subtract 2 Mixed Numbers – Year 5 Developing

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## Subtract 2 Mixed Numbers

### Subtract 2 Mixed Numbers



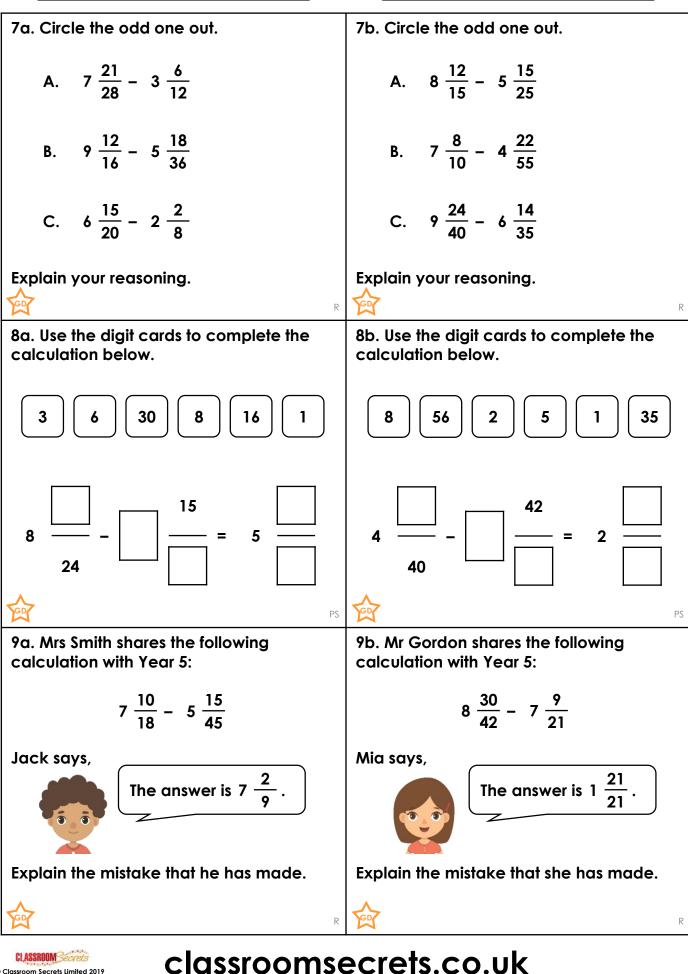
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Reasoning and Problem Solving – Subtract 2 Mixed Numbers – Year 5 Expected

## Subtract 2 Mixed Numbers

## Subtract 2 Mixed Numbers



Reasoning and Problem Solving – Subtract 2 Mixed Numbers – Year 5 Greater Depth

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### <u>Reasoning and Problem Solving</u> <u>Subtract 2 Mixed Numbers</u>

#### Developing

1a. A is the odd one out because it equals  $1\frac{2}{5}$ . B and C equal  $1\frac{1}{5}$ . 2a. 2, 6, 1

3a. Harry has not found the common denominator for the fractions. The correct answer is  $5\frac{1}{4}$ .

### **Expected**

4a. C is the odd one out because it equals  $4\frac{3}{7}$ . A and B equal  $4\frac{2}{7}$ . 5a. 3, 4, 28, 1 6a. Lucas has only subtracted the fraction and not the whole number. The correct answer is  $5\frac{1}{6}$ .

### <u>Greater Depth</u>

7a. C is the odd one out because it equals  $4\frac{1}{2}$ . A and B equal  $4\frac{1}{4}$ . 8a. 16, 3, 30, 1, 6 9a. Jack has only subtracted the fraction and not the whole number. The correct answer is  $2\frac{2}{9}$ .

### <u>Reasoning and Problem Solving</u> <u>Subtract 2 Mixed Numbers</u>

#### Developing

1b. C is the odd one out because it equals  $2\frac{2}{4}$ . A and B equal  $2\frac{1}{4}$ . 2b. 4, 10, 2 3b. Bella has only subtracted the fraction and not the whole number. The correct

### **Expected**

answer is  $5\frac{1}{3}$ .

4b. B is the odd one out because it equals  $5\frac{1}{9}$ . A and C equal  $5\frac{2}{9}$ . 5b. 2, 3, 15, 1 6b. Sumiya has not found the common denominator for the fractions. The correct answer is  $3\frac{1}{8}$ .

<u>Greater Depth</u> 7b. B is the odd one out because it equals  $3\frac{2}{5}$ . A and C equal  $3\frac{1}{5}$ . 8b. 35, 2, 56, 1, 8 9b. Mia has not found the common denominator for the fractions. The correct answer is  $1\frac{2}{7}$ .



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