Reasoning and Problem Solving Step 3: Mixed Numbers to Improper Fractions

National Curriculum Objectives:

Mathematics Year 5: (5F2a) <u>Recognise mixed numbers and improper fractions and</u> <u>convert from one form to the other and write mathematical statements > 1 as a mixed</u> <u>number [for example, 2/5 + 4/5 = 6/5 = 1 1/5]</u>

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Use the clues to find the missing digits for the mixed number and improper fraction. Includes quarters and tenths with pictorial representations.

Expected Use the clues to find the missing digits for the mixed number and improper fraction. Includes fractions up to twelfths with pictorial representations.

Greater Depth Use the clues to find the missing digits for the mixed number and improper fraction. Includes fractions up to twelfths.

Questions 2, 5 and 8 (Reasoning)

Developing Identify whether a statement is correct or incorrect and explain why. Include thirds and fifths with pictorial representations.

Expected Identify whether a statement is correct or incorrect and explain why. Includes fractions up to twelfths with pictorial representations.

Greater Depth Identify whether a statement is correct or incorrect and explain why. Includes fractions up to twelfths and incomplete pictorial representations.

Questions 3, 6 and 9 (Problem solving)

Developing Follow clues to identify a mixed number to convert to an improper fraction. Includes halves and tenths.

Expected Follow clues to identify a mixed number to convert to an improper fraction. Includes fractions up to twelfths.

Greater Depth Follow clues to identify a mixed number to convert to an improper fraction. Find multiple possibilities.

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

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Reasoning and Problem Solving – Mixed Numbers to Improper Fractions – Teaching Information



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Reasoning and Problem Solving – Mixed Numbers to Improper Fractions – Year 5 Developing



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Reasoning and Problem Solving – Mixed Numbers to Improper Fractions – Year 5 Expected



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Reasoning and Problem Solving – Mixed Numbers to Improper Fractions – Year 5 Greater Depth

<u>Reasoning and Problem Solving</u> <u>Mixed Numbers to Improper Fractions</u>

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<u>Developing</u> 1a. $2 \frac{3}{4} = \frac{11}{4}$ 2a. Frankie is incorrect; $3 \frac{2}{3} = \frac{11}{3}$. 3a. $\frac{22}{10}$ or $\frac{24}{10}$

Expected 4a. $5 \frac{2}{6} = \frac{32}{6}$ 5a. Lucille is incorrect; $4 \frac{4}{12} = \frac{52}{12}$. 6a. $\frac{43}{12}$ Developing 1b. $3\frac{3}{10} = \frac{33}{10}$ 2b. Dan is incorrect; $4\frac{2}{5} = \frac{22}{5}$. $3b.\frac{7}{2}$

Expected 4b. $4 \frac{4}{5} = \frac{24}{5}$ 5b. Karl is correct. $3 \ge 8 = 24$ and 24 + 2 = 26 so $3 \frac{2}{8} = \frac{26}{8}$. 6b. $\frac{48}{11}$ or $\frac{50}{11}$

<u>Greater Depth</u> 7b. $7 \frac{2}{8} = \frac{29}{4}$ 8b. Simon is incorrect; $4 \frac{2}{9} = \frac{38}{9}$. 9b. $\frac{40}{12}$ or $\frac{10}{3}$

Greater Depth

7a. $6 \frac{9}{12} = \frac{27}{4}$ 8a. Sue is correct. 3 x 11 = 33 and 33 + 6 = 39 so $3 \frac{6}{11} = \frac{39}{11}$. 9a. $\frac{33}{6}, \frac{44}{8}$ or $\frac{55}{10}$



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