Reasoning and Problem Solving Step 2: Improper Fractions to Mixed Numbers

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 (Reasoning)

Developing Find and explain the mistakes. Includes halves, thirds, quarters, fifths and tenths. Includes pictorial representations.

Expected Find and explain the mistakes. Includes fractions up to twelfths. Includes pictorial representations.

Greater Depth Find and explain the mistakes. Includes fractions up to twelfths and incomplete pictorial representation.

Questions 2, 5 and 8 (Reasoning)

Developing Identify the correct statement and explain why. Includes halves, thirds, quarters, fifths and tenths. Includes pictorial representations.

Expected Identify the correct statement and explain why. Includes fractions up to twelfths. Includes pictorial representations.

Greater Depth Identify the correct statement and explain why. Includes fractions up to twelfths.

Questions 3, 6 and 9 (Problem Solving)

Developing Use the digit cards to make an accurate number sentence that converts an improper fraction into a mixed number. Includes halves, thirds, quarters, fifths and tenths. **Expected** Use the digit cards to make an accurate number sentence that converts an improper fraction into a mixed number. Includes fractions up to twelfths.

Greater Depth Use the digit cards to make an accurate number sentence the converts an improper fraction into a mixed number. Includes fractions up to twelfths and additional parameters.

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

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



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

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



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

Developing

1a. A. The numerator and denominator are incorrect. The mixed number should be $4\frac{2}{3}$.

B. The whole number is incorrect. The mixed number should be $1\frac{5}{10}$ or $1\frac{1}{2}$ 2a. Sara is correct. $\frac{9}{4} = 2\frac{1}{4}$ 3a. $\frac{13}{2} = 6\frac{1}{2}$

Expected

4a. A. The whole number is incorrect. The mixed number should be $2\frac{6}{9}$ or $2\frac{2}{3}$. B. The numerator is incorrect. The mixed number should be $2\frac{5}{6}$. 5a. Lewis is correct. $\frac{13}{8} = 1\frac{5}{8}$ 6a. $\frac{13}{5} = 2\frac{3}{5}$

Greater Depth

7a A. The numerator is bigger than the denominator so the whole number should be 4. The mixed number should be $4\frac{3}{4}$. B. The numerator is incorrect. The mixed fraction should be $1\frac{4}{12}$ or $1\frac{1}{3}$. 8a. Cecile is correct. $\frac{28}{6} = 4\frac{4}{6}$ 9a. $\frac{39}{7} = 5\frac{4}{7}$

Developing

1b. A. The numerator is bigger than the denominator so the whole number should be 3. The mixed number should be $3\frac{1}{2}$. B. The numerator is incorrect. The mixed number should be $3\frac{3}{5}$. 2b. Taylor is correct. $\frac{9}{5} = 1\frac{4}{5}$ 3b. $\frac{15}{4} = 3\frac{3}{4}$

Expected

4b. A. The whole number is incorrect. The mixed number should be $1\frac{10}{12}$ or $1\frac{5}{6}$. B. The numerator is incorrect. The mixed number should be $4\frac{3}{8}$. 5b. Noah is correct. $\frac{42}{10} = 4\frac{2}{10}$ 6b. $\frac{26}{8} = 3\frac{2}{8}$

Greater Depth

7b. A. The numerator is incorrect. The mixed number should be $1\frac{7}{11}$. B. The whole number is incorrect. The mixed number should be $4\frac{2}{5}$. 8b. Patsy is correct. $\frac{23}{12} = 1\frac{11}{12}$ 9b. $\frac{59}{8} = 7\frac{3}{8}$

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