Unit 9: Fractions (2)

Lesson 1: Adding fractions

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1. $\frac{4}{5}+\frac{2}{5}=1\frac{1}{5}$. Tino eats $1\frac{1}{5}$ bales of hay.

2. $\frac{7}{9}+\frac{5}{9}=\frac{12}{9}$. Alexis runs $\frac{12}{9}$ km in total.

3. a) $\frac{6}{4}$ c) $\frac{16}{12}$ e) $\frac{9}{5}$

b) $\frac{6}{5}$ d) $\frac{13}{10}$ f) $\frac{13}{9}$

4. Calculations matched to answers:

$\frac{6}{7}+\frac{3}{7}=1\frac{2}{7}$

$\frac{5}{7}+\frac{1}{7}+\frac{6}{7}=\frac{12}{7}$

$\frac{3}{7}+\frac{4}{7}=1$

$\frac{6}{7}+\frac{5}{7}=\frac{11}{7}$

5. a) Fred has added the numerators together and then the denominators together, rather than adding just the numerators and leaving the denominator the same.

b) $\frac{10}{8}$ (children may write this as $\frac{5}{4}$ or $1\frac{2}{8}$ or $1\frac{1}{4}$)

6. Missing numbers:

a) 3, 3, 4

b) 6, 4, 5

c) Different answers are possible; for example:

$\frac{15}{8}=\frac{3}{8}+\frac{6}{8}+\frac{6}{8}$ (missing numerators total 12)

$\frac{15}{8}=\frac{4}{8}+\frac{5}{8}+\frac{6}{8}$ (missing numerators total 11)

$\frac{15}{8}=\frac{5}{8}+\frac{5}{8}+\frac{5}{8}$ (missing numerators total 10)

$\frac{15}{8}=\frac{6}{8}+\frac{5}{8}+\frac{4}{8}$ (missing numerators total 9)

Reflect

Diagrams may vary; for example, children may draw a number line marked in fifths and count on $\frac{4}{5}$ from $\frac{4}{5}$. Alternatively, children may draw two shapes divided into fifths with $\frac{4}{5}$ of each shaded.