MEMORANDUM

Name: ..... Class: .....

Date: .....

MARK ____ / 19

Answer all questions. Show all your working — marks are awarded for method as well as the final answer. **Teacher copy: accept any correct equivalent method.**

1 $\frac{2}{9} + \frac{5}{9}$ (1)

Same denominator → $\frac{7}{9}$ ✓ (1)

2 $\frac{7}{8} - \frac{3}{8}$ (1)

$\frac{4}{8} = \frac{1}{2}$ (simplify) ✓ (1)

3 $\frac{1}{2} + \frac{1}{4}$ (2)

LCD 4 → $\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$ ✓✓ (2)

4 $\frac{2}{3} + \frac{1}{6}$ (2)

LCD 6 → $\frac{4}{6} + \frac{1}{6} = \frac{5}{6}$ ✓✓ (2)

5 $\frac{5}{6} - \frac{1}{2}$ (2)

LCD 6 → $\frac{5}{6} - \frac{3}{6} = \frac{2}{6} = \frac{1}{3}$ ✓✓ (2)

6 $\frac{3}{4} + \frac{2}{5}$ (2)

LCD 20 → $\frac{15}{20} + \frac{8}{20} = \frac{23}{20} = 1\frac{3}{20}$ ✓✓ (2)

7 $1\frac{1}{2} + 2\frac{1}{4}$ **(3)**

$\frac{3}{2} + \frac{9}{4} = \frac{6}{4} + \frac{9}{4} = \frac{15}{4} = \mathbf{3\frac{3}{4}}$ ✓✓✓ (3)

8 $3\frac{1}{3} - 1\frac{1}{2}$ **(3)**

$\frac{10}{3} - \frac{3}{2} = \frac{20}{6} - \frac{9}{6} = \frac{11}{6} = \mathbf{1\ \frac{5}{6}}$ ✓✓✓ (3)

9 A pipe is $\frac{3}{4}$ m long and another is $\frac{2}{3}$ m. What is their total length? **(3)**

LCD 12 → $\frac{9}{12} + \frac{8}{12} = \frac{17}{12} = \mathbf{1\ \frac{5}{12}}$ **m** ✓✓✓ (3)

TOTAL: 19 marks

© Danemathics — free to print and share for classroom use.