

Name: _____ Date: _____

Fractions (including decimals and percentages)

1 Write the missing numerator or denominator to show the equivalent fractions.

a) $\frac{3}{4} = \frac{\square}{8} = \frac{9}{\square} = \frac{12}{\square}$

b) $\frac{2}{5} = \frac{4}{\square} = \frac{6}{\square} = \frac{\square}{20}$

c) $\frac{5}{8} = \frac{10}{\square} = \frac{\square}{24} = \frac{20}{\square}$

d) $\frac{2}{3} = \frac{\square}{6} = \frac{6}{\square} = \frac{8}{\square}$

1
4 marks

2 Convert each pair of fractions into equivalent fractions with the lowest common denominator. Show all your working.

a) $\frac{3}{4}$ and $\frac{1}{12} = \frac{\square}{\square}$ and $\frac{\square}{\square}$

b) $\frac{2}{3}$ and $\frac{2}{15} = \frac{\square}{\square}$ and $\frac{\square}{\square}$

c) $\frac{1}{4}$ and $\frac{1}{6} = \frac{\square}{\square}$ and $\frac{\square}{\square}$

d) $\frac{1}{5}$ and $\frac{1}{3} = \frac{\square}{\square}$ and $\frac{\square}{\square}$

e) $\frac{1}{7}$ and $\frac{3}{4} = \frac{\square}{\square}$ and $\frac{\square}{\square}$

f) $\frac{5}{6}$ and $\frac{1}{4} = \frac{\square}{\square}$ and $\frac{\square}{\square}$

g) $\frac{2}{3}$ and $\frac{3}{5} = \frac{\square}{\square}$ and $\frac{\square}{\square}$

h) $\frac{5}{8}$ and $\frac{7}{10} = \frac{\square}{\square}$ and $\frac{\square}{\square}$

2
8 marks

3 Simplify each fraction.

a) $\frac{9}{15} = \frac{\square}{\square}$

b) $\frac{15}{18} = \frac{\square}{\square}$

c) $\frac{12}{27} = \frac{\square}{\square}$

d) $\frac{3}{24} = \frac{\square}{\square}$

e) $\frac{60}{100} = \frac{\square}{\square}$

f) $\frac{30}{54} = \frac{\square}{\square}$

g) $\frac{20}{32} = \frac{\square}{\square}$

h) $\frac{12}{40} = \frac{\square}{\square}$

3
8 marks