Name: _____ Date: _____

Fractions (including decimals and percentages)

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

a) $\frac{3}{4} = \frac{\boxed{6}}{8} = \frac{9}{\boxed{12}} = \frac{\boxed{12}}{\boxed{16}}$

b) $\frac{2}{5} = \frac{4}{\boxed{10}} = \frac{\boxed{6}}{\boxed{15}} = \frac{\boxed{8}}{20}$

c) $\frac{5}{8} = \frac{\boxed{10}}{\boxed{16}} = \frac{\boxed{15}}{24} = \frac{\boxed{20}}{\boxed{32}}$

d) $\frac{2}{3} = \frac{\boxed{4}}{6} = \frac{\boxed{6}}{\boxed{9}} = \frac{\boxed{8}}{\boxed{12}}$

1
4 marks

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

Pupils' working will vary.

a) $\frac{3}{4}$ and $\frac{1}{12}$ = 9/12 and 1/12

b) $\frac{2}{3}$ and $\frac{2}{15}$ = 10/15 and 2/15

c) $\frac{1}{4}$ and $\frac{1}{6}$ = 3/12 and 2/12

d) $\frac{1}{5}$ and $\frac{1}{3}$ = 3/15 and 5/15

e) $\frac{1}{7}$ and $\frac{3}{4}$ = 4/28 and 21/28

f) $\frac{5}{6}$ and $\frac{1}{4}$ = 10/12 and 3/12

g) $\frac{2}{3}$ and $\frac{3}{5}$ = 10/15 and 9/15

h) $\frac{5}{8}$ and $\frac{7}{10}$ = 25/40 and 28/40

2
8 marks

3 Simplify each fraction.

a) $\frac{9}{15}$ = 3/5

b) $\frac{15}{18}$ = 5/6

c) $\frac{12}{27}$ = 4/9

d) $\frac{3}{24}$ = 1/8

e) $\frac{60}{100}$ = 3/5

f) $\frac{30}{54}$ = 5/9

g) $\frac{20}{32}$ = 5/8

h) $\frac{12}{40}$ = 3/10

3
8 marks

● use common factors to simplify fractions; use common multiples to express fractions in the same denomination

Total: ____ out of 20 Mastery: NYA A A&E