

13 £960.68

14 50%

15 51

**4 Unit test**

1 a  $\frac{14}{5} \div \frac{10}{7} [1] = \frac{14}{5} \times \frac{7}{10} [1] = 1\frac{24}{25}$  o.e. [1]      b  $\frac{17}{3} - \frac{23}{8} [1] = \frac{136 - 69}{24} [1] = 2\frac{19}{24}$  o.e. [1]

2  $\frac{33}{4} - \frac{29}{6} [1] = \frac{99 - 58}{12} [1] = 3\frac{5}{12}$  o.e. [1]

3 a  $£848.75 \div 5 \times 12 [1] = £2037 [1]$       b  $£3055.50 [1]$

4 a 1:4.25 [1]      b 1:4.5 seen [1] The first ward has better ratio as each nurse has fewer patients [1]

5  $1.27 \times 540 [1] = €685.50 [1]$  Cameron gets €680 [1]

6 a 13:9 seen [1]  
 $a = 27 [1]$

b  $b = 32.5 [1]$

c  $J = \frac{13K}{9} [1]$

7  $\frac{9.63 - 2.14}{2.14} \times 100 [1] = 350\% [1]$

8 a  $121660 \div 96.25 [1] \times 100 [1] = 126400 [1]$

b  $\frac{104.5}{96.25} \times 100 [1] = 8.6\%$  increase [1]

9 Original area = LW [1]

New area =  $0.6L [1] \times 1.3W [1] = 0.78LW [1]$

This is a 22% [1] decrease [1]

**Sample student answer**

The question has asked them to 'Compare' the costs of the handbags. They must state, using the costs found, which handbag is cheaper/more expensive. For example, 'The handbag is cheaper in Manchester as it costs £52.50, whereas in Paris it costs £54.'