Ratio and Proportion

Name:	Class:	Date:

Mark	/ 10	%

1) Simplify [2]

   a) 104 : 64

   b) 150 : 40 : 100

2) Write in the form 1 : n, giving your answer as a decimal rounded to 3 significant figures [1]

   19 : 17

3) Share 45 buttons between Delaney and Laura in the ratio 3 : 6 [1]

4) Divide 99 miles in the ratio 14 : 8 : 11 [1]

5) A jug of orange squash is made by mixing 2 parts water to 7 parts orange concentrate. [1]

   How much orange concentrate is needed to make 387 ml of orange squash?

6) A recipe for pastry requires 190g of flour to make 380g of pastry. [1]
How many grams of flour will be needed to make 47.5g of pastry?

7) If 3 people take 8 days to pick the plums from a tree, how many days will it take 8 people to do the same job?

[1]

8) The distance between two points on a map is 10 cm. The scale of the map is 1:25000. [1]

   Find the actual distance between the two points in km.

9) The length of a real part on a plane is 1.9 m.   [1]

The scale of a model plane is 1:25.

Find the length, in centimetres, of the part on the model plane.

Solutions for the assessment Ratio and Proportion

1) a) 13 : 8

b) 15 : 4 : 10

2) 1 : 0.895

3) Delaney gets 15 buttons and Laura gets 30 buttons

4) 42 miles : 24 miles : 33 miles

5) 301 ml

6) 23.75 g

7) 3 days

8) 2.5 km

9) 7.6 cm