1) Simplify [3]

a) \(30 : 3\)

b) \(77 : 165\)

c) \(56 : 24 : 48\)

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

\(11 : 23\)

3) Share 32 coins between Manuel and Bria in the ratio 6 : 2 [1]

Manuel gets \(\underline{\quad}\) coins and Bria gets \(\underline{\quad}\) coins

4) Divide 100 g in the ratio 13 : 3 : 4 [1]

\(\underline{\quad}\) g : \(\underline{\quad}\) g : \(\underline{\quad}\) g

5) Divide £6.97 between Ryan and Emanuel in the ratio 2 : 5. Give your answer to the nearest penny. [1]

Ryan gets £\(\underline{\quad}\) and Emanuel gets £\(\underline{\quad}\)
6) A recipe requires 3 cups of sugar to make 6 cookies. How many cups of sugar will be needed to make 12 cookies?


7) A recipe for pastry requires 200g of flour to make 600g of pastry. How many grams of flour will be needed to make 120g of pastry?


8) A bottling machine makes 70 bottles in 19 hours. How many bottles will it make in 7 hours?


9) After 32 games of a football season, Chelsea won 24 games and lost 8 games. At this rate, how many games will they win in a 59 game season?


10) If Dakota walks 3 miles in 56 minutes, how many miles will he walk in 94 minutes?
Solutions for the assessment Ratio and proportion

1) a) 10 : 1
   b) 7 : 15
   c) 7 : 3 : 6

2) 1 : 2.09

3) Manuel gets 24 coins and Bria gets 8 coins

4) 65 g : 15 g : 20 g

5) Ryan gets £1.99 and Emanuel gets £4.98

6) 6 cups of sugar

7) 40 g

8) 26 bottles

9) 44 games

10) 5.04 miles