

Ratio and proportion

Name: _____ Class: _____ Date: _____

Mark / 12 %

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 coins and Bria gets coins

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

g : g : g

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

Ryan gets £ and Emanuel gets £

6) A recipe requires 3 cups of sugar to make 6 cookies.
How many cups of sugar will be needed to make 12 cookies?

[1]

cups of sugar

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?

[1]

g

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

[1]

bottles

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?

[1]

games

10) If Dakota walks 3 miles in 56 minutes, how many miles will he walk in 94 minutes?

[1]

miles

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) $65 \text{ g} : 15 \text{ g} : 20 \text{ g}$

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