

Ratios

Name:	Class:	Date:
		Mark / 12 %

- 1) Simplify [3]
- a) 8 : 4
- b) 49 : 35
- c) 104 : 96 : 120
- 2) Write in the form 1 : n, giving your answer as a decimal rounded to 3 significant figures [1]
- 29 : 23
- 3) Write as a fraction in its lowest terms [3]
- a) 1 : 2
- b) 28 : 40
- c) 110 : 100
- 4) Share 64 buttons between Erin and Amanda in the ratio 9 : 7 [1]
- 5) Divide 150 yards in the ratio 9 : 7 : 14 [1]
- 6) Divide £8.35 between Cameron and Erin in the ratio 7 : 6. [1]

Give your answer to the nearest penny.

7) A bowl of lemonade is made by mixing 3 parts water to 8 parts lemon juice. [1]

How much lemon juice is needed to make 1089 ml of lemonade?

8) A recipe for orange squash is made by mixing 3 parts orange concentrate to 7 parts water. [1]

How much water is needed to mix with 165 ml of orange concentrate to make the orange squash?

Solutions for the assessment Ratios

1) a) $2 : 1$

b) $7 : 5$

c) $13 : 12 : 15$

2) $1 : 0.793$

3) a) $\frac{1}{2}$

b) $\frac{7}{10}$

c) $\frac{11}{10}$

4) Erin gets 36 buttons and Amanda gets 28 buttons

5) 45 yards : 35 yards : 70 yards

6) Cameron gets £4.50 and Erin gets £3.85

7) 792 ml

8) 385 ml