

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