

Quick Test - Ratios



1. Write each of these ratios in their simplest form:

a.	4 : 6	2 : 3	b.	15 : 21	5 : 7
c.	72 : 45	8 : 5	d.	24cm : 36cm	2 : 3
e.	350g : 2kg	7 : 40	f.	42p : £1.36	21 : 68

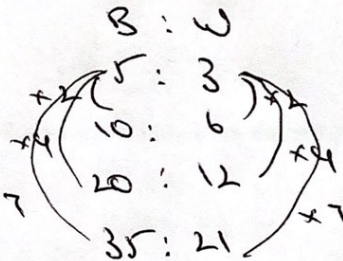
~~350~~
~~2000~~

350 : 2000

42 : 136

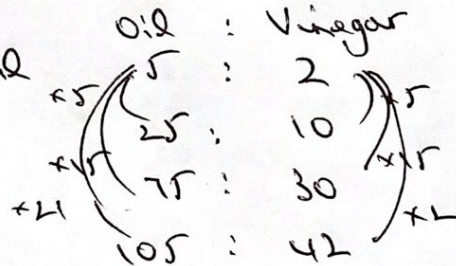
2. To make grey paint, black and white are mixed in the ratio 5 : 3. How much black would be needed with:

- a. 6 litres of white? 10 litres black
- b. 12 litres of white? 20 litres black
- c. 21 litres of white? 35 litres black



3. To make salad dressing you mix olive oil and vinegar in the ratio 5 : 2. How much olive oil is needed with:

- a. 10ml of vinegar? 25ml olive oil
- b. 30ml of vinegar? 75ml oil
- c. 42ml of vinegar? 105ml oil



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4. Sarah works as a waitress. Each week she splits her wage into spending money and savings in the ratio 7 : 3.

- a. One week, Sarah earns £130. How much should she put in her savings?
- b. The next week, Sarah put £42 into her savings. How much did she earn in total that week?

a)
$$\begin{array}{l} Sp : Sav \\ 7 : 3 \\ \times 13 \left(\begin{array}{l} 91 : 39 \\ 130 \end{array} \right) \times 13 \\ \underline{\underline{\pounds 39}} \end{array}$$

b)
$$\begin{array}{l} Sp : Sav \\ 7 : 3 \\ \times 14 \left(\begin{array}{l} 98 : 42 \\ 140 \end{array} \right) \times 14 \\ \underline{\underline{\pounds 140}} \end{array}$$

5. The ratio of men to women at a football match is 11 : 4. How many men were there if there are:

- a. 2000 women? 5500 men
- b. 8460 women? 23265 men

$$\begin{array}{l} M : W \\ 11 : 4 \\ \times 500 \left(\begin{array}{l} 5500 : 2000 \\ 7500 \end{array} \right) \times 500 \\ \times 2115 \left(\begin{array}{l} 23265 : 8460 \\ 25500 \end{array} \right) \times 2115 \end{array}$$

6. Divide £75 in the ratio 2:3

$$\pounds 30 \quad \pounds 45$$

$$\begin{array}{l} 2 : 3 \\ \times 15 \left(\begin{array}{l} 30 : 45 \\ 75 \end{array} \right) \times 15 \end{array}$$

7. Divide £255 in the ratio 2:5:8

$$\pounds 34 \quad \pounds 85 \quad \pounds 136$$

$$\begin{array}{l} 2 : 5 : 8 \\ \times 17 \left(\begin{array}{l} 34 : 85 : 136 \\ 255 \end{array} \right) \times 17 \end{array}$$

