

1. Write in the form $n : 1$

- a. $6 : 2$ b. $15 : 5$ c. $50 : 10$ d. $42 : 6$ e. $12 : 8$ f. $7 : 2$
g. $36 : 10$ h. $17 : 5$ i. $3 : 10$ j. $13 : 20$ k. $450 : 75$ l. $6400 : 2000$

2. Write in the form $1 : n$

- a. $2 : 12$ b. $5 : 15$ c. $10 : 35$ d. $4 : 10$ e. $2 : 15$ f. $10 : 27$
g. $5 : 2$ h. $12 : 9$ i. $20 : 33$ j. $25 : 40$ k. $40 : 100$ l. $20 : 84$

3. Write in the form $1 : n$

- a. $4 \text{ cm} : 5 \text{ m}$ b. $15 \text{ g} : 42 \text{ kg}$ c. $2 \text{ mm} : 65 \text{ cm}$ d. $25\text{p} : \text{£}1.30$ e. $20 \text{ mins} : 1.4 \text{ hrs}$ f. $2.5 \text{ cm} : 450 \text{ km}$

4.

- a. Mike mixes water and juice in the ratio $3 : 1$
Nate mixes water and juice in the ratio $4 : 1$
Who has the strongest drink?
- b. Blossom pink paint is mixed using white and red paint in the ratio $4 : 3$
Cherry pink paint is mixed using white and red paint in the ratio $10 : 8$
Which variety of pink paint is darker in colour?
- c. Sally has participated in 36 races and won 5
Betty has participated in 54 races and won 8
Who has been more successful?

4. Here are the goals scored and shots taken by a football team

Player	Goals Scored	Shots Taken
Dennis	4	9
Frank	2	21
Timmy	5	11
Tommy	5	16
Dave	4	15
Richard	5	7
Warren	4	25
Norris	8	34

- a. Find the ratio of goals : shots for each player.
- b. Write the ratios in the form $1 : n$
(Give to 2.d.p where appropriate)
- c. Use the ratios to put the players in order, starting with the most accurate player
- d. Another player, Peter, took 35 shots and was the fourth most accurate player.
How many goals could he have scored?

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