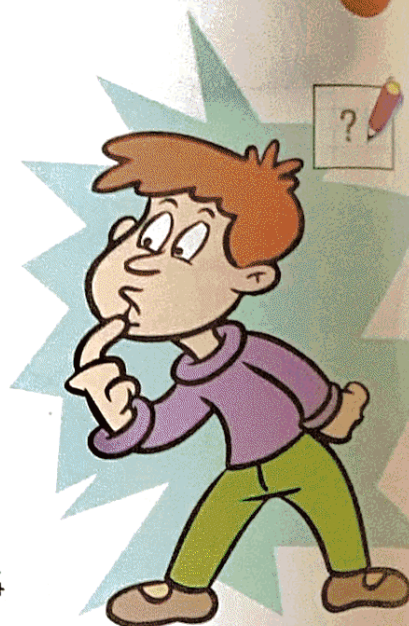


Simplify these ratios, where possible, using whole numbers only.

- | | | | | | | | |
|----|---------|----|---------|----|----------|----|---------|
| 1 | 8:12 | 2 | 4:6 | 3 | 12:6 | 4 | 5:6 |
| 5 | 7:21 | 6 | 28:21 | 7 | 12:9 | 8 | 8:6 |
| 9 | 15:21 | 10 | 14:35 | 11 | 18:24 | 12 | 35:45 |
| 13 | 6:18:36 | 14 | 9:45:72 | 15 | 15:25:65 | 16 | 8:20:44 |



Write these ratios, using decimals, in the form 1 :

- | | | | | | | | |
|----|------|----|------|----|-------|----|------|
| 17 | 2:3 | 18 | 5:8 | 19 | 10:14 | 20 | 4:7 |
| 21 | 8:12 | 22 | 9:27 | 23 | 8:10 | 24 | 4:21 |
| 25 | 8:60 | 26 | 4:58 | 27 | 8:19 | 28 | 5:27 |

17. 1:1.5

Problems

- 29 There are 25 teachers in a school of 450 children. Write the pupil to teacher ratio in its simplest form.



- 30 A cake is divided so that Janice gets 3 times as much as Jason. What proportion does Jason get?



- 31 In a class of 27, the boys to girls ratio is 4:5. How many girls are there?



- 32 Jo spends her day playing, eating and sleeping in the ratio 3:1:4. For how many hours does she play?



- 33 Richard, Karen and Lizzy have been given a total of £60 to divide in the ratio 2:3:5. How much does each get?



- 34 Concrete is made by mixing cement, sand and gravel in the ratio of 1:2:3. What proportion of the mix is a) sand, b) cement, c) gravel? If 18 m³ of concrete is mixed, how much of each ingredient is needed?

