

Ratio and Proportion

If black and white counters are in the ratio 3 : 5, what fraction of the counters are black?	Dogs and cats are in the ratio 4 : 3. If there are 24 dogs, how many cats are there?	Rob, Sue and Tia share £60 in the ratio 5 : 3 : 4. How much does each person get?	Five pencils costs £3.90. How much does it cost for 12 pencils?
Find the total number of parts: $3 + 5 = 8$ Fraction of black counters = $\frac{3}{8}$	Dogs : Cats $\begin{array}{ccc} & 4 : 3 & \\ \times 6 \swarrow & & \searrow \times 6 \\ 24 : ___ & & \end{array}$ $3 \times 6 = 18$ cats	Find the total number of parts: $5 + 3 + 4 = 12$ Find how much 1 part is worth: $£60 \div 12 = £5$ Multiply each share by £5: Rob £25, Sue £15, Tia £20	Find the cost of 1 pencil in pence: $\frac{390}{5} = 78\text{p}$ Find the cost of 12 pencils: $78\text{p} \times 12 = 936\text{p}$ £9.36
If roses and lilies are in the ratio 7 : 2, what fraction of the flowers are lilies?	Boys and girls are in the ratio 4 : 5. If there are 16 boys, how many girls are there?	Delia and Eduardo share £56 in the ratio 4 : 3. How much does each person get?	Six chocolate bars costs £2.88. How much does it cost for 13 chocolate bars?
$\frac{2}{9}$	20	Delia £32 Eduardo £24	£6.24
If cows and sheep are in the ratio 4 : 7, what fraction of the animals are cows?	Cars and vans are in the ratio 6 : 1. If there are 25 vans, how many cars are there?	Ali, Bill and Cerys share £80 in the ratio 3 : 2 : 5. How much does each person get?	18 rulers costs £6.30. How much does it cost for seven rulers?
$\frac{4}{11}$	150	Ali £24 Bill £16 Cerys £40	£2.45
If red and yellow sweets are in the ratio 8 : 5, what fraction of the sweets are yellow?	Dolls and teddies are in the ratio 7 : 9. If there are 21 dolls, how many teddies are there?	Fatima, Gill and Hari share £90 in the ratio 8 : 5 : 7. How much does each person get?	Three t-shirts costs £41.25. How much does it cost for five t-shirts?
$\frac{5}{13}$	27	Fatima £36 Gill £22.50 Hari £31.50	£68.75