

B

- 1 Six km² of a farm is used for cultivating crops and nine km² for grazing livestock. Write the ratio of cultivation : grazing land use in its lowest terms.
- 2 Five of the pencils in a packet are blunt and 15 are sharp. Write the ratio of blunt to sharp pencils in its simplest form.
- 3 Twenty people in a shoe shop are browsing and eight people make a purchase. Write the ratio browsers : purchasers in its lowest terms.
- 4 Judy has spent £15. She has £18 left. Write the ratio of money spent : left in its lowest terms.
- 5 A hockey club has 80 adult members and 30 juniors. Write the ratio adults : juniors in its simplest form.
- 6 There are 6 instructors and 42 children at a gymnastics coaching session. Write the ratio of instructors to children in its lowest terms.
- 7 Sixteen plain packets of crisps are sold and 36 flavoured packets. Write the ratio plain : flavoured in its lowest terms.
- 8 Twelve slices of a loaf have been eaten. Nine are left. Write the ratio eaten : uneaten slices in its simplest form.
- 9 There are 26 children in a class. 14 are girls. Write the ratio girls : boys in its simplest form.
- 10 Simplify
 - a) 6 : 24
 - b) 18 : 10
 - c) 100 : 30
 - d) 16 : 28
 - e) 40 : 60
 - f) 24 : 21
 - g) 50 : 300
 - h) 40 : 24

C

- 1 A factory produces 60 cars. 25 are sprayed black. Write the ratio of black cars to cars of other colours in its lowest terms.
- 2 A 60 cm length is cut from a 2 m plank. Write the ratio of this length to that of the remaining plank in its simplest form.
- 3 When a river bursts its banks 24 of the 68 houses in a village are flooded. Write the ratio flooded : unflooded houses in its lowest terms.
- 4 A greengrocer has 136 kg of potatoes. 80 kg are sold. Write the ratio of sold to unsold potatoes in its lowest terms.
- 5 In two weeks Lamar eats 3 pears, 9 apples and 12 bananas. Write the ratio of pears to apples to bananas in its lowest terms.
- 6 A set of crockery contains four small, ten medium-sized and ten large plates. Write the ratio small : medium : large in its simplest form.
- 7 In one hour an office worker spends 12 minutes dealing with emails, 18 minutes answering letters and 30 minutes on the phone. Write the ratio time spent on emails : letters : phone calls in its lowest terms.
- 8 In Year 6 24 children walk to school, 16 cycle and 4 come by car. Write the ratio walkers : cyclists : passengers in its simplest form.
- 9 There are 200 marbles in a jar. 90 are green, 45 are red and 65 are blue. Write the ratio green : red : blue marbles in its simplest form.
- 10 Simplify
 - a) 48 : 18
 - b) 24 : 60
 - c) 20 : 45
 - d) 36 : 21
 - e) 2 : 4 : 10
 - f) 32 : 12 : 8
 - g) 5 : 25 : 20
 - h) 21 : 9 : 18