

Examples



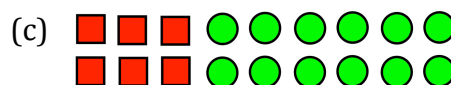
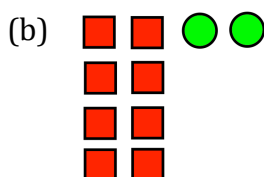
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Workout

Question 1: For each of the following, write down the ratio of red squares to green circles. Give your ratios in their simplest forms.



Question 2: Simplify the following ratios

(a) 4 : 6

(b) 14 : 8

(c) 15 : 10

(d) 6 : 15

(e) 30 : 10

(f) 12 : 16

(g) 6 : 18

(h) 45 : 10

(i) 12 : 28

(j) 24 : 36

(k) 25 : 60

(l) 27 : 63

(m) 48 : 60

(n) 120 : 260

(o) 8000 : 75

(p) 33 : 121

(q) 2.5 : 4.5

(r) 1.5 : 20

(s) 6 : 1.2

(t) 2.25 : 4.95

Question 3: Write the following as ratios in their simplest forms.

(a) £4 to £20

(b) 240cm to 400cm

(c) 50 minutes to 20 minutes

(d) 60kg to 72kg

(e) 12 miles to 30 miles

(f) 15cm to 75cm

(g) 8.5g to 3.5g

(h) £0.50 to £20

(i) 1.02 litres to 0.74 litres

Question 4: Write the following as ratios in their simplest forms.

(a) 8 days to 2 weeks

(b) 1 hour to 15 minutes

(c) 2 hours to 1 day

(d) 95p to £3.00

(e) 400m to 1.5km

(f) 15kg to 900g

(g) 4500ml to 2 litres

(h) 8km to 50mm

(i) 90 minutes to 2 days

Question 5: Express each of the following ratios in the form  $1 : n$

- (a)  $2 : 3$                       (b)  $5 : 4$                       (c)  $4 : 10$                       (d)  $10 : 7$   
(e)  $8 : 13$                       (f)  $5 : 81$                       (g)  $100 : 131$                       (h)  $200 : 77$   
(i)  $25 : 29$                       (j)  $21 : 40$

Question 6: Express each of the following ratios in the form  $n : 1$

- (a)  $7 : 2$                       (b)  $9 : 5$                       (c)  $11 : 3$                       (d)  $5 : 8$   
(e)  $3 : 10$                       (f)  $19 : 20$                       (g)  $207 : 50$                       (h)  $38 : 55$

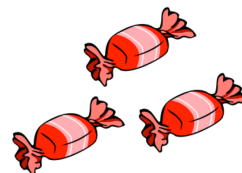
Apply

Question 1: Daisy mixes 50 ml of orange juice with 200 ml of water.  
Write down the ratio of orange juice to water.  
Give your answer in its simplest form.

Question 2: At a football match, there are 3000 men and 1800 women.  
Write down the ratio of male fans to female fans.  
Give your answer in its simplest form.



Question 3: Aidan, Bill and Cara share sweets in the ratio of their ages.  
Aidan is 12 years old.  
Bill is 9 years old.  
Cara is 3 years old.  
Write down the ratio of their ages.  
Give your answer in its simplest form.



Question 4: In a nursery, there are 5 adults and 14 children.  
Write the ratio of adults to children in the form  $1 : n$

Question 5: Ellie is making a cake.  
The instructions say that the ratio of sugar to flour should be  $1 : 3$   
Ellie uses 250g of sugar and 650g of flour.  
Has Ellie used the correct ratio of sugar to flour?



## Ratio: Simplifying

Video 269 on [www.corbettmaths.com](http://www.corbettmaths.com)

Question 6: Shannon is revising for her summer exams.  
The table below shows the number of minutes Shannon spends revising on each of 5 evenings.  
It also shows the number of minutes Shannon spends relaxing on the 5 evenings.

	Monday	Tuesday	Wednesday	Thursday	Friday
Number of minutes revising	88	198	150	133	160
Number of minutes relaxing	20	40	28	25	34

Shannon wants to spend at least 5 minutes revising for every 1 minute of relaxing.  
On which days did Shannon spend enough time revising?

Question 7: Four teachers are planning school trips.  
The table shows the number of students and the number of teachers planned to go on the trip.

	Karting	Museum	Theme Park	University
Number of students	140	221	342	159
Number of teachers	8	12	19	9

For every 18 students there must be at least 1 teacher.  
Which trips have planned to bring enough teachers?

Answers



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