

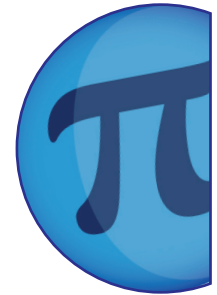


Ratios: The Maths of Baking

NAME:

CLASS:

DATE:



Basic

1) In a large fish tank there are 13 goldfish and 17 tropical fish. Write down the ratio of:

a) goldfish to tropical fish

b) tropical fish to goldfish

2) In a garden there are 11 rosebushes and 5 apple trees. What is the ratio of:

a) rose bushes to apple trees?

b) apple trees to rosebushes?

3) Write each pair of ratios in its simplest form:

a) 12:10

b) 2:20

c) 20:25

d) 21:18

e) 25:50

f) 13:39

4) The speed limit on a motorway in the UK is 70mph. In towns and populated areas it is 30mph.

Express the ratio of motorway speed to populated areas in its simplest form.

5) On a school trip, there are 27 students and 3 teachers. Write, in its simplest form, the ratio of:

a) students to teachers

b) teachers to students

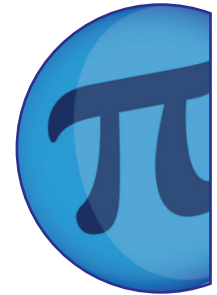


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Core

1) Write each pair of numbers as a ratio in its simplest form:

- a) 8:10 b) 14:35 c) 3:3 d) 24:6
- e) 11:66 f) 3:300 g) 36:24 h) 44:33

2) Express each of the following as a unitary ratio (1:n):

- a) 5:3 b) 2:11 c) 4:3 d) 5:27

3) The ratio of staff to students at Grange Academy is 1:17.5

- a) How many students would you expect if there are 42 staff?
- b) Approximately how many staff would be needed for 1000 students?

4) In one month a garage sells 72 cars. The ratio of new cars to used cars is 3:5. How many of each are sold?

5) Share:

- a) £12 in the ratio 3:1 b) 60kg in the ratio 2:3

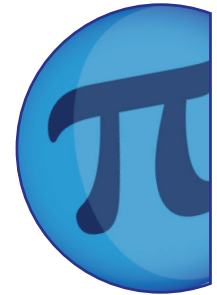


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Advanced

1) Simplify the following ratios:

a) 100m:1km

b) 1 tonne:10kg

c) 6 hours:1 day

2) The ratio of the lengths of the three sides of a right-angled triangle is 5:12:13. The perimeter of the triangle is 300cm. Calculate the lengths of the sides.

3) Jennifer has to cook 240g of rice to give two portions. What weight of rice should she use for five portions?

4) The following recipe makes six scones:

110g self-raising flour

20g butter

750ml milk

1 tablespoon caster sugar

How much of each ingredient is needed to make 15 scones?



Ratios: The Maths of Baking

ANSWERS

Basic

- 1) a) 13:17 b) 17:13
- 2) a) 11:5 b) 5:11
- 3) a) 6:5 b) 1:10 c) 4:5
d) 7:6 e) 1:2 f) 1:3
- 4) 7:3
- 5) a) 9:1 b) 1:9

Core

- 1) a) 4:5 b) 2:5 c) 1:1 d) 4:1
e) 1:6 f) 1:100 g) 3:2 h) 4:3
- 2) a) 1:0.6 b) 1:5.5 c) 1:0.75 d) 1:5.4
- 3) a) 735 b) 57
- 4) New cars = 27 Used cars = 45
- 5) a) £9:£3 b) 24kg:36 kg

Advanced

- 1) a) 1:10 b) 100:1 c) 1:4
- 2) 50cm, 120cm, 130cm
- 3) 600g
- 4) Flour 275g; butter 50g; milk 1875ml; sugar 2.5 tablespoons