FUNCTIONAL SKILLS MATHEMATICS

AQA | Edexcel | City & Guilds | Open Awards | NCFE | Highfield

Level 1, Level 2

Ratio

Materials
- You **cannot** use a calculator for **questions** with this symbol.

Instructions
- Answer **all** questions.
- Answer questions on separate paper.

Information and Advice
- The marks for each question are shown in brackets – use this as a guide on how long to spend on each question.
- Read each question carefully before you answer it.
- Check you answers.

Q1   Write these ratios in their simplest form:

1(a)   6 : 12

[1 mark]

1(b)   25 : 5

[1 mark]

1(c)   6 : 8

[1 mark]

1(d)   21 : 14

[1 mark]

Q2   Write these ratios in their simplest form:

2(a)   3 : 6 : 18

[1 mark]

2(b)   35 : 10 : 15

[1 mark]

2(c)   32 : 16 : 24

[1 mark]

Q3   A wall is made with 800 red bricks and 350 black bricks.

What is the ratio of red bricks to black bricks, in its simplest form?

[1 mark]

Q4   Stanislav owns 56 books and Andriy owns 42 books.

What is the ratio of books Stanislav owns to books Andriy owns?

[1 mark]

9

Q5   Si-Woo makes his blackcurrant squash by adding 5 parts water to every 1 part of squash. How much water will he add to 20 ml of squash?

[2 marks]

Q6   Sjaak makes his coffee by adding 4 parts hot water to 1 part of milk.
How much hot water should he use if he uses 50 ml of milk?

[2 marks]

Q7   Christian and Anton share some money in the ratio $1:4$. The money shared between them is £300. How much money does Christian get?

[2 marks]

Q8   Some butter is made from 1 part salt to 20 parts of cream. 420 g of butter is made. How much salt is used?

[2 marks]

Q9   Savanna has red counters, blue counters and yellow counters in the ratio $6:2:5$. Savanna has 52 counters. How many of each colour of counter does she have?

[3 marks]

Q10   Dionne, Greg and Sandy share £4000 in the ratio $4:3:1$. How much does each person get?

[3 marks]

Q11   A sorbet is made from one part honey and four parts strawberry. 340 g of strawberries are used. How much sorbet is made in total?

[3 marks]

Q12   A simple biscuit is made from 4 parts milk to 9 parts self-raising flour. 270 g of self-raising flour is used. How much biscuit is made in total?

[3 marks]

20