

Sharing in a Ratio

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **25**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

- 1** A playlist has 48 songs.
The songs are pop songs or rock songs.
pop songs : rock songs = 5 : 3
How many pop songs are on the playlist?

[2 marks]

Answer _____

- 2** Divide 336 in the ratio 5 : 9

[3 marks]

Answer _____ : _____

- 3** Share £210 in the ratio 3 : 4

[2 marks]

Answer £ _____ and £ _____

- 4** A café makes granola by mixing oats, nuts and dried fruit in the ratio
oats : nuts : dried fruit = 7 : 2 : 3
The café makes 1.8 kg of granola.
How many grams of nuts does the café use?

[2 marks]

Answer _____ g

- 5** Divide 26 in the ratio 3 : 5

[3 marks]

Answer _____ :

- 6** A cycling club has more than 40 members but fewer than 50 members.
Each member rides either a road bike or a mountain bike.
road bike riders : mountain bike riders = 4 : 7
How many members ride mountain bikes?

[2 marks]

Answer _____

- 7 A packet of wildflower seeds contains only poppy, cornflower and daisy seeds.
poppy : cornflower : daisy = 9 : 4 : 2
There are 360 seeds in the packet.
How many more poppy seeds than cornflower seeds are in the packet?

[3 marks]

Answer _____

- 8 Elif and Bartek deliver leaflets.
leaflets Elif delivers : leaflets Bartek delivers = 4 : 5
Bartek delivers 135 leaflets.
They are paid 6p for each leaflet they deliver.
How much are they paid altogether?
Give your answer in pounds.

[3 marks]

Answer £ _____

- 9 The only players in a youth orchestra are string players and wind players.
string players : wind players = 13 : 20
Which of these could be the total number of players in the orchestra?
Circle your answer.

[1 mark]

40

52

66

80

- 10** A gardener makes potting mix by mixing compost and grit in the ratio 5 : 1 by volume.
Compost is sold in 50-litre bags. Each bag costs £6.50
Grit is sold in 20-litre bags. Each bag costs £4
She wants to make 180 litres of potting mix.

Work out the total cost of the bags she needs to buy.

[4 marks]

Answer £ _____