



ACHIEVE ACADEMY

GCSE Maths — Foundation Tier

Ratio · Practice Booklet

NAME: _____

CLASS: _____

DATE: _____

☐ Developing

☒ Secure

☐ Greater Depth

Answer every question in the working space provided. Method marks are available for correct working even if the final answer is wrong. Check the time allowed with your tutor before you start.

Ratio

Total marks available: 94

● Ratio

Q1

[3 marks]

Share £225 in the ratio 7:8. Find the larger share.

Q2

[3 marks]

Share £154 in the ratio 2:9. Find the larger share.

Q3

[2 marks]

Simplify the ratio 30:48 to its simplest form.

Q4

[3 marks]

Share £143 in the ratio 6:5. Find the smaller share.

Q5

[3 marks]

Share £195 in the ratio 4:9. Find the smaller share.

Q6

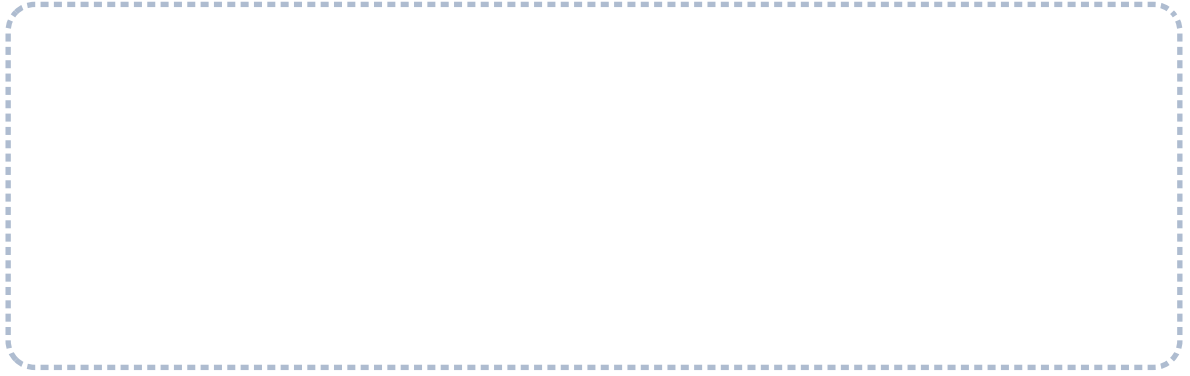
[3 marks]

Share £165 in the ratio 2:9. Find the larger share.

Q7

[2 marks]

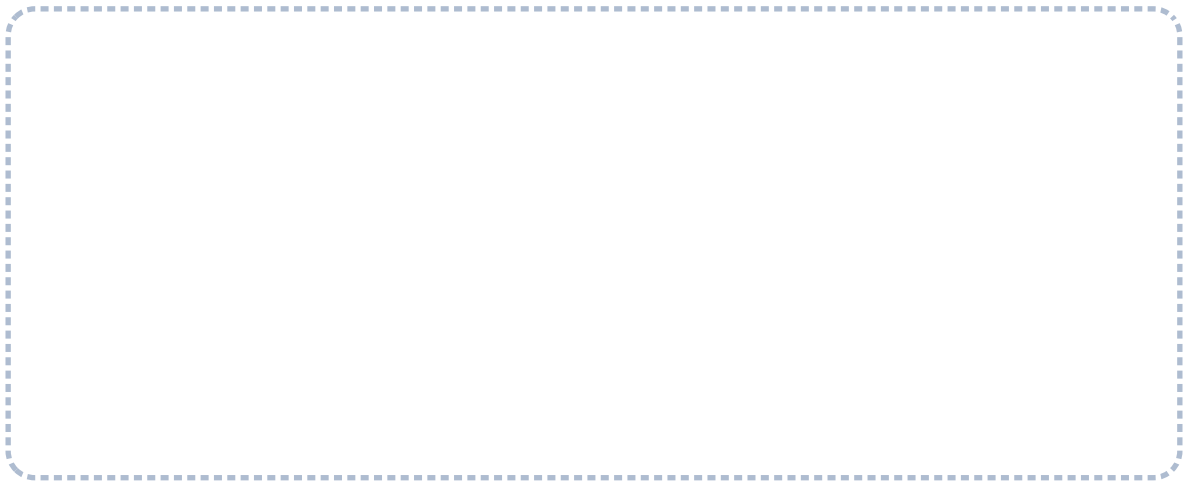
Simplify the ratio 35:30 to its simplest form.



Q8

[3 marks]

Share £121 in the ratio 8:3. Find the smaller share.



Q9

[2 marks]

Simplify the ratio 35:49 to its simplest form.

Q10

[3 marks]

Share £182 in the ratio 5:8. Find the larger share.

Q11

[3 marks]

The ratio of boys to girls is 3:1. There are 6 boys. How many students in the class are there altogether?

Q12

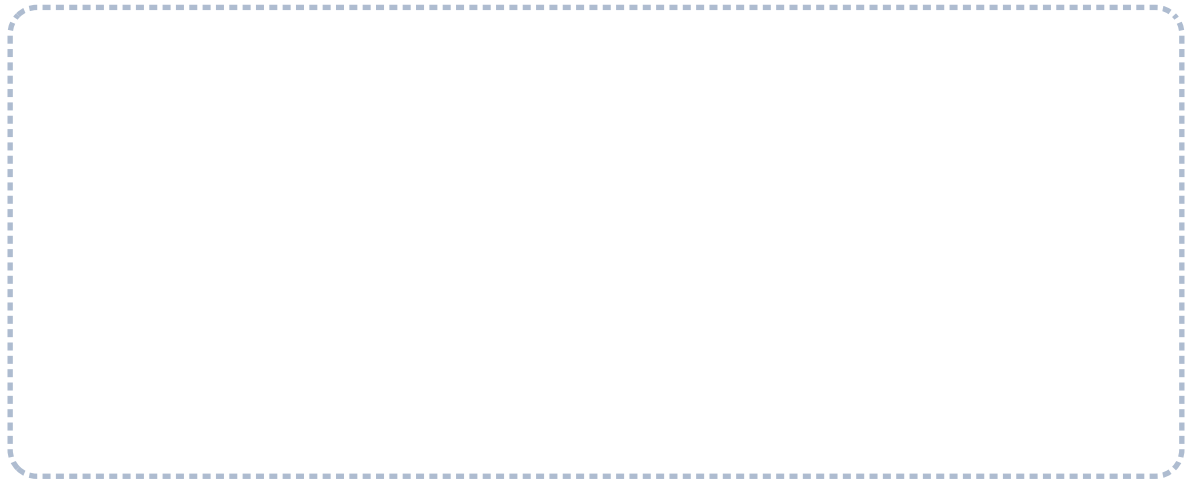
[3 marks]

$a:b = 8:7$. If $a = 16$, find the value of b .

Q13

[3 marks]

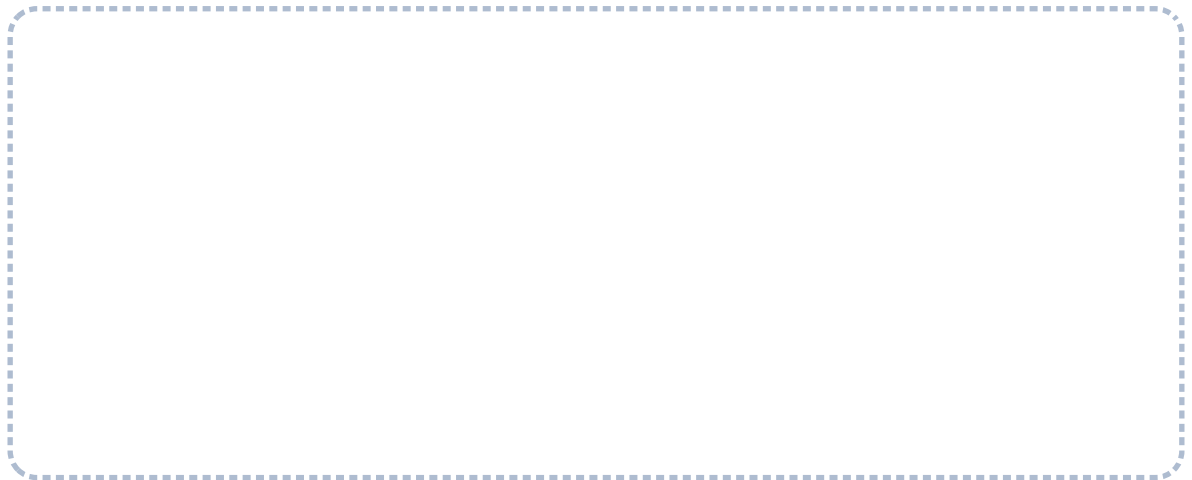
$a:b = 9:2$. If $a = 63$, find the value of b .



Q14

[3 marks]

$a:b = 5:8$. If $a = 15$, find the value of b .



Q15

[3 marks]

$a:b = 9:8$. If $a = 54$, find the value of b .

Q16

[3 marks]

$a:b = 6:5$. If $a = 72$, find the value of b .

Q17

[3 marks]

The ratio of boys to girls is 1:2. There are 2 boys. How many students in the class are there altogether?

Q18

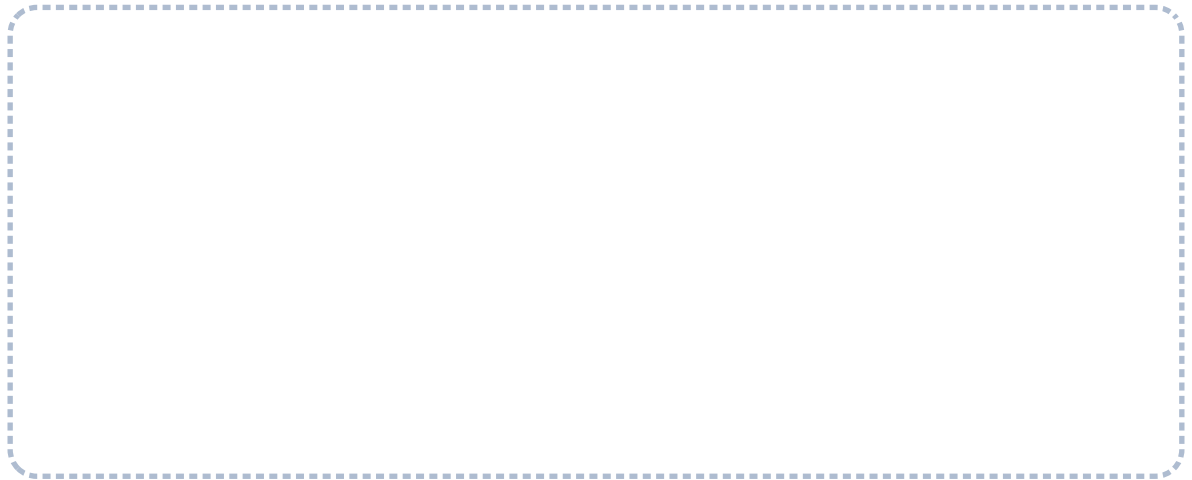
[3 marks]

The ratio of boys to girls is 5:3. There are 10 boys. How many students in the class are there altogether?

Q19

[3 marks]

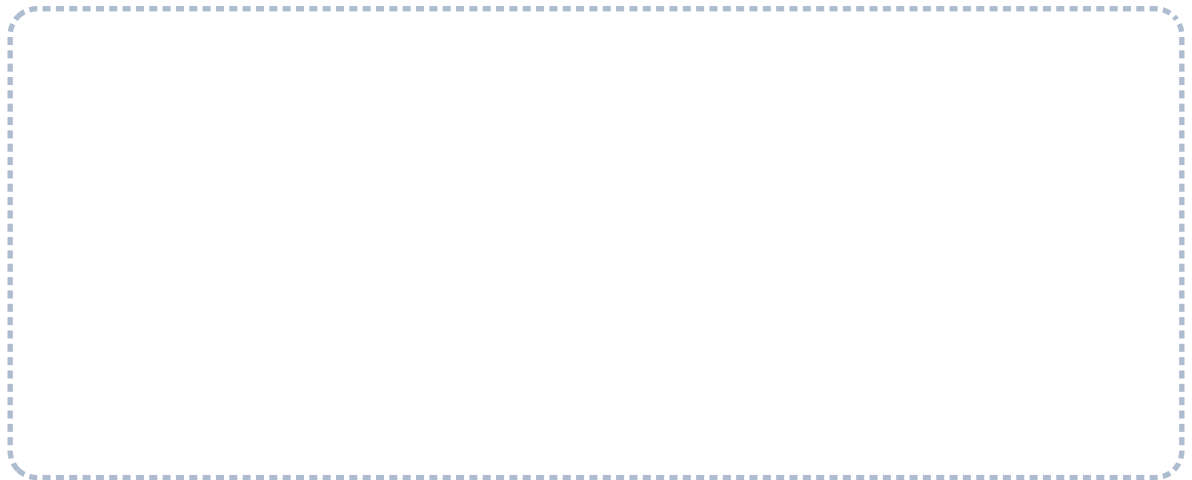
$a:b = 9:7$. If $a = 27$, find the value of b .



Q20

[3 marks]

$a:b = 4:5$. If $a = 28$, find the value of b .



Q21

[3 marks]

A recipe uses flour and sugar in the ratio 3:8. Priya uses 30 g of flour. (a) How much sugar does Priya need? (b) Work out the total mass of flour and sugar.

Q22

[4 marks]

£112 is shared in the ratio 6:3:5. Find the difference between the largest and smallest shares.

Q23

[4 marks]

£48 is shared in the ratio 2:3:1. Find the difference between the largest and smallest shares.

Q24

[4 marks]

£96 is shared in the ratio 6:5:1. Find the difference between the largest and smallest shares.

Q25

[4 marks]

£24 is shared in the ratio 3:2:1. Find the difference between the largest and smallest shares.

Q26

[4 marks]

£143 is shared in the ratio 5:2:6. Find the difference between the largest and smallest shares.

Q27

[3 marks]

A recipe uses flour and sugar in the ratio 5:2. Priya uses 150 g of flour. (a) How much sugar does Priya need? (b) Work out the total mass of flour and sugar.

Q28

[3 marks]

A recipe uses flour and sugar in the ratio 7:4. Sam uses 175 g of flour. (a) How much sugar does Sam need? (b) Work out the total mass of flour and sugar.

Q29

[4 marks]

£70 is shared in the ratio 5:4:1. Find the difference between the largest and smallest shares.

Q30

[4 marks]

£30 is shared in the ratio 3:1:2. Find the difference between the largest and smallest shares.