

Acumen Teach To the point

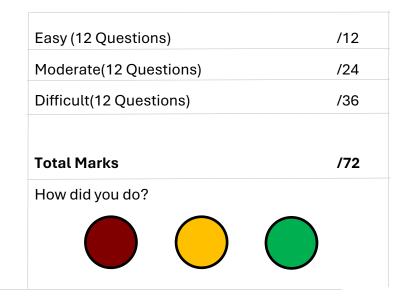
Ratio & Proportion Master-box

Number—Logic—Mathematical knowledge application—Ratios—Proportion—Logical proofs











Easy Questions

Simplify the ratio 6: 9.

(1 marks)

2. Divide £20 in the ratio 2:3.

(1 marks)

If x : y = 3 : 4 and y = 12, find x.

(1 marks)



4. Write 15:25 in its simplest form.

(1 marks)

5. If 5 pencils cost £1.50, what is the cost of 1 pencil?

(1 marks)

6. If a:b=2:5 and b=15, find a.

(1 marks)

Share £100 in the ratio 1: 4.

(1 marks)

8. If 3 apples cost 90p, what is the cost of 5 apples?

(1 marks)



9. Simplify 14:21.

(1 marks)

10. If 2:3=8:x, find x.

(1 marks)

11. Simplify 14:21.

(1 marks)

12. Simplify 14:21.

(1 marks)



Moderate Questions

13.	A map has a scale of $1:50,000$. If two towns are 8 cm apart on the map, how far real life (in km)?	are they in
14.	A bag contains red and blue marbles in the ratio $5:3.$ If there are 24 blue marbles, red marbles are there?	(2 marks) how many
15.	A car travels 240 miles in 4 hours. What is its average speed in miles per hour?	(2 marks)
16.	A rectangle has sides in the ratio $\bf 3:5.$ If the shorter side is 9 cm, what is the perin rectangle?	(2 marks) neter of the
		(2 marks)



 A recipe requires flour and sugar in the ratio 7: 4. If 35g of flour is used, how much sugar in needed? 	7.	L 7
. A sum of money is shared in the ratio $2:3:5.$ If the smallest share is £40, what is the total amount of money?	3.	18
(2 marks • A car uses 12 litres of petrol to travel 144 km. How much petrol will it use to travel 240 km?	9.	19
(2 marks . A school has a ratio of boys to girls of $4:5.$ If there are 180 girls, how many boys are there?	Э.	20
. A bag contains sweets in the ratio $2:3:5.$ If there are 30 sweets in total, how many sweets are in the smallest group?	1.	21
(2 marks		







Difficult Questions

25.	A bag contains red, blue, and green marbles in the ratio $3:4:5.$ If there are 60 matrix total, how many marbles are there of each colour?	arbles in
		(3 marks)
26.	A rectangle has sides in the ratio $4:7.$ If the perimeter is 66 cm, find the length and the rectangle.	width of
27.	A recipe requires flour, sugar, and butter in the ratio $5:3:2.$ If 200g of flour is used, it sugar and butter are needed?	(3 marks) now much
		(3 marks)





32.	A rectangle has sides in the ratio $5:8.$ If the area is $320~{\rm cm^2}$, find the length and width of rectangle.	the
33.	A recipe requires flour, sugar, and butter in the ratio $4:3:2.$ If 120g of sugar is used, how much flour and butter are needed?	-
34.	A sum of money is shared in the ratio $2:5:7.$ If the smallest share is £30, what is the tot amount of money?	
35.	(3 marks A car travels 420 km in 6 hours. If it continues at the same speed, how far will it travel in 9 hours?	•
36.	A map scale is $1:10,000$. If two villages are 15 cm apart on the map, how far are they in life (in km)?	
	(2 marks	s)