

Q1. (2018)

30  $y$  is inversely proportional to  $x$ .  
Complete the table.

[2 marks]

|     |    |   |   |
|-----|----|---|---|
| $x$ | 12 | 6 |   |
| $y$ |    | 4 | 8 |

Q2. (2020)

24 The cost of a holiday is £2400  
Rana pays a deposit followed by monthly payments, in the ratio

deposit : total of the monthly payments = 3 : 5

She makes 6 equal monthly payments.  
Work out her monthly payment.

[4 marks]

Answer £ \_\_\_\_\_

Q3. (2021)

24 Working alone, it takes Kevin 4 hours to paint an area of 12 m<sup>2</sup>  
Kevin and Steve are going to paint an area of 24 m<sup>2</sup>  
Kevin says,  
"Working together at the same rate it will take us 8 hours, because 24 is 2 × 12"  
Is he correct?  
Tick a box.

Yes

No

Give a reason for your answer.

[1 mark]

Q4. (2024)

12 Two bags, X and Y, each contain coloured discs.  
In bag X,  $\frac{7}{20}$  of the discs are red.

In bag Y,  $\frac{2}{5}$  of the discs are red.

Which bag has the **greater** proportion of red discs, X or Y?  
You **must** show your working.

[2 marks]

Q5 (2024

13 (b) A tennis player wins or loses matches in the ratio win : lose = 5 : 9  
What fraction of the matches do they win?

[1 mark]

Answer \_\_\_\_\_