AQA – Ratio, proportion and rate of change – GCSE Mathematics Paper_1

1. June/2021/Paper_1F/No.16

   A password has 30 characters.

   It is made up of 5 numbers, 15 letters and some symbols.

   Work out the ratio   numbers : letters : symbols

   Give your answer in its simplest form.

   [2 marks]

   _____

   _____

   _____

   Answer _____ : _____ : _____

2. June/2021/Paper_1F/No.24

   Working alone, it takes Kevin 4 hours to paint an area of 12 m^2

   Kevin and Steve are going to paint an area of 24 m^2

   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]

   _____

   _____

   _____

   _____

3. June/2021/Paper_1H/No.20

Which **one** of these is a unit of density?

Circle your answer.

[1 mark]

cm^2/g $\qquad$ cm^3/g $\qquad$ g/cm^2 $\qquad$ g/cm^3

4. June/2021/Paper_1H/No.26

$d = 2f$

$\dfrac{e-f}{d-e} = \dfrac{1}{4}$

Work out the ratio $\quad e : f$

[3 marks]

Answer _____ : _____