Preparation for Year 9 Assessment 1 Q1-3

Q1 A car costs £7800 plus 20% VAT.

I pay a deposit of £2400 and the rest of my bill in 12 equal monthly payments.

How much is each monthly payment?

Q2a

Write 420 as a product of its prime factors.

$$2 | 420$$
 $2 | 210$
 $3 | 10'5$
 $5 | 35$
 $7 | 7$
 $| 7$

Q2b Find the HCF of 420 and 90.

$$290 \\
 345 \\
 315 \\
 90 = 2 \times 3 \times 3 \times 5$$

$$420 = 2 \times 2 \times 3 \times 5 \times 7$$

$$HCF = 2 \times 3 \times 5$$

$$= 30$$

Q3 A Number 15 bus leaves the bus station every 15 minutes.

A Number 18 bus leaves the bus station every 18 minutes.

A Number 15 and a Number 18 both leave together at 4.00 pm.

What time will they next leave the bus station together?