

'the largest prime number that is a factor of 28'
is multiplied by
'the smallest prime number that is factor of 15'.

[2]

Numeracy Summer 2018 P1 Q4b

(b) From Grainsey, the Number 6 bus runs to Wyndre and the Number 7 bus runs to Hafgoch.

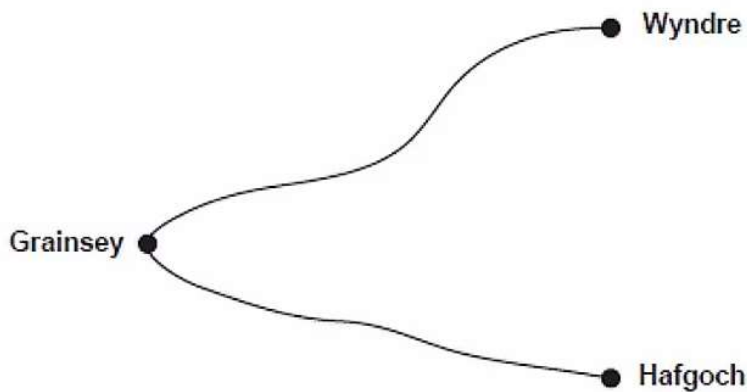


Diagram not drawn to scale

The timetable for these buses is given below:

Bus Number	To	Times
6	Wyndre	First bus leaves at 10:00, then every 20 minutes after this time.
7	Hafgoch	First bus leaves at 10:00, then every 45 minutes after this time.

After 10:00, when will the Number 6 bus and the Number 7 bus next leave Grainsey at the same time? [4]

Intermediate Maths Summer 2019 P1 Q10

- (a) Express 315 as a product of its prime factors in index form. [3]
- (b) What is the Highest Common Factor (HCF) of 315 and 42? [2]

Intermediate Maths June 2017 P1 Q12a

- (a) Express 700 as a product of its prime factors in index form. [3]

Caer Parc, Hawdon and Trebach are three bus stations.
Buses operate through the day, but no buses are timetabled to leave Caer Parc after 22:30.

Buses leave Caer Parc to Hawdon every 24 minutes.
Buses leave Caer Parc to Trebach every 18 minutes.

The first buses of the day from Caer Parc going to Hawdon and Trebach both leave at 06:00.

When is the last time that day that buses to Hawdon and Trebach both leave at the same time from Caer Parc? [6]

Intermediate Maths Sample 1 P2 Q11

(a) Express 144 as the product of its prime factors in index form. [3]

(b) Given that $60 = 2^2 \times 3 \times 5$, find

(i) the highest common factor (HCF) of 144 and 60, [1]

(ii) the lowest common multiple (LCM) of 144 and 60. [1]

Intermediate Maths Nov 2017 P2 Q13

Find the answer to the following number problem. [5]

'(the LCM of 12, 18 and 24) \div (the HCF of 36 and 54).'

Intermediate Maths Summer 2018 P2 Q14a

(a) The highest common factor (HCF) of 30 and 75 is the square root of a number.
What is the number? [2]
