

PRIME FACTORS, HCF AND LCM

Pearson Edexcel - Thursday 4 June 2020 - Paper 2 (Calculator) Foundation Tier

1.

21 (a) Write 84 as a product of its prime factors.

(2)

(b) Find the lowest common multiple (LCM) of 60 and 84

(2)

(Total for Question 21 is 4 marks)

Pearson Edexcel - Tuesday 21 May 2019 - Paper 1 (Non-Calculator) Foundation Tier

2.

24 Find the highest common factor (HCF) of 72 and 90

(Total for Question 24 is 2 marks)

Pearson Edexcel - Thursday 7 June 2018 - Paper 2 (Calculator) Foundation Tier

3.

21 (a) Find the lowest common multiple (LCM) of 40 and 56

(2)

$$A = 2^3 \times 3 \times 5$$

$$B = 2^2 \times 3 \times 5^2$$

(b) Write down the highest common factor (HCF) of A and B .

.....
(1)

.....
(Total for Question 21 is 3 marks)
.....

Pearson Edexcel - Thursday 2 November 2017 - Paper 1 (Non-Calculator) Foundation Tier

4.

23 Write 36 as a product of its prime factors.

.....
(Total for Question 23 is 2 marks)
.....

Pearson Edexcel – Specimen 2 - Paper 1 (Non-Calculator) Foundation Tier

5.

25 Write 504 as a product of powers of its prime factors.

.....

(Total for Question 25 is 3 marks)

Pearson Edexcel – Specimen 2 - Paper 2 (Calculator) Foundation Tier

6.

21 Find the highest common factor (HCF) of 32, 48 and 72

.....
(Total for Question 21 is 2 marks)

OCR Tuesday 11 June 2019 – Morning (Calculator) Foundation Tier

7.

6 (a) These are the first five multiples of 15.

15 30 45 60 75

Write down the first five multiples of 30.

(a) , , , , **[2]**

(b) Write down the lowest common multiple (LCM) of 15 and 30.

(b) **[1]**

OCR Tuesday 6 November 2018 – Morning (Calculator) Foundation Tier

8.

4 (a) Write down each of the following.

(i) An even number.

(a)(i) [1]

(ii) A factor of 25.

(ii) [1]

(iii) A prime number between 10 and 20.

(iii) [1]

(iv) A cube number.

(iv) [1]

(b) Find the highest common factor (HCF) of 35 and 91.

(b) [2]

OCR Monday 24 May 2018 – Morning (Calculator) Foundation Tier

9.

13 (a) Show that the highest common factor (HCF) of 18 and 63 is 9. [2]

(b) Find the lowest common multiple (LCM) of 18 and 63.

..... [2]

OCR Thursday 2 November 2017– Morning (Calculator) Foundation Tier

10.

2 (a) Write down

(i) a multiple of 13,

(a)(i) [1]

(ii) a prime number between 40 and 50.

(ii) [1]

(b) Find the lowest common multiple (LCM) of 16 and 28.

(b) [2]

Pearson Edexcel –Sample Papers - Paper 2 (Calculator) Foundation Tier

11.

16 Find the Highest Common Factor (HCF) of 24 and 60

.....
(Total for Question 16 is 2 marks)

OCR Thursday 25 May 2017 – Morning (Calculator) Foundation Tier

12.

18 (a) Write 490 as the product of its prime factors.

(a) [2]

(b) Buses to Ayton leave the station every 25 minutes.
Buses to Bleeftord leave the station every 40 minutes.
Buses to both places leave at 9am.

What is the next time buses to Ayton and Bleeftord leave the station together?

(b) [4]

OCR Tuesday 13 June 2017 – Morning (Calculator) Foundation Tier

13.

19 Two numbers have these properties.

- Both numbers are greater than 6.
- Their highest common factor (HCF) is 6.
- Their lowest common multiple (LCM) is 60.

Find the two numbers.

..... and **[3]**

AQA Thursday 4 June 2020 – Morning (Calculator) Foundation Tier

14.

24 Work out the highest common factor (HCF) of 75 and 105

[2 marks]

Answer _____

AQA Tuesday 21 May 2019 – Morning (Non-Calculator) Foundation Tier

15.

9 (a) Write down **all** the factors of 18

[2 marks]

Answer _____

9 (b) Work out the lowest common multiple (LCM) of 12 and 15

[2 marks]

Answer _____

AQA Thursday 25 May 2017– Morning (Non-Calculator) Foundation Tier

16.

- 26** Write 36 as a product of prime factors.
Give your answer in index form.

[3 marks]

Answer _____