Name: _____

GCSE (1 - 9) Factors, Multiples and Primes	Solutions:

These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk

Question	Where the question appeared	Question	Where the question appeared
1	Edexcel, GCSE, Summer 2017, Paper 2F, Q8	16	Edexcel, GCSE, Autumn 2019, Paper 3F, Q1
2	Edexcel, GCSE, Autumn 2017, Paper 2F, Q2	17	Edexcel, GCSE, Autumn 2019, Paper 3F, Q4
3	Edexcel, GCSE, Autumn 2017, Paper 2F, Q7	18	Edexcel, GCSE, Autumn 2020, Paper 1F, Q2
4	Edexcel, GCSE, Autumn 2017, Paper 3F, Q3	19	Edexcel, GCSE, Summer 2023, Paper 1F, Q7
5	Edexcel, GCSE, Autumn 2017, Paper 3F, Q9	20	Edexcel, GCSE, Summer 2023, Paper 2F, Q5
6	Edexcel, GCSE, Summer 2018, Paper 1F, Q5	21	Edexcel, GCSE, November 2022, Paper 1F, Q4
7	Edexcel, GCSE, Summer 2018, Paper 1F, Q11	22	Edexcel, GCSE, November 2022, Paper 2F, Q5
8	Edexcel, GCSE, Summer 2018, Paper 2F, Q6	23	Edexcel, GCSE, Summer 2022, Paper 2F, Q4
9	Edexcel, GCSE, Summer 2018, Paper 2F, Q10	24	Edexcel, GCSE, Summer 2022, Paper 3F, Q3
10	Edexcel, GCSE, Summer 2018, Paper 3F, Q6		
11	Edexcel, GCSE, Autumn 2018, Paper 1F, Q3		
12	Edexcel, GCSE, Autumn 2018, Paper 1F, Q10		
13	Edexcel, GCSE, Summer 2019, Paper 1F, Q4		
14	Edexcel, GCSE, Summer 2019, Paper 2F, Q3		
15	Edexcel, GCSE, Summer 2019, Paper 3F, Q2		

1

Here is a list of numbers.

21 22 23 24 25 26 27 28 29

(a) From the numbers in the list, write down a square number.

.....

(1)

(b) From the numbers in the list, write down a number that is a multiple of **both** 4 and 6

.....

(1)

(c) Write down all the prime numbers in the list.

.....

(1)

(Total for Question 8 is 3 marks)

[Edexcel, GCSE, Summer 2017, Paper 2F, Q8]

2

Write down a multiple of 6 that is between 40 and 50

.....

(Total for Question 2 is 1 mark)

[Edexcel, GCSE, Autumn 2017, Paper 2F, Q2]

3

Steve says,

"There are more prime numbers between 20 and 30
than there are between 10 and 20"

Is Steve right?
You must show how you get your answer.

(Total for Question 7 is 2 marks)

[Edexcel, GCSE, Autumn 2017, Paper 2F, Q7]

4

Write down all the factors of 18

.....

(Total for Question 3 is 2 marks)

[Edexcel, GCSE, Autumn 2017, Paper 3F, Q3]

5

Nidah writes down two different prime numbers.

She adds together her two numbers.
Her answer is a square number less than 30

Find two prime numbers that Nidah could have written down.

..... , ...

(Total for Question 9 is 2 marks)

[Edexcel, GCSE, Autumn 2017, Paper 3F, Q9]

6

Write down the first even multiple of 7

.....

(Total for Question 5 is 1 mark)

[Edexcel, GCSE, Summer 2018, Paper 1F, Q5]

7

Write down an example to show that each of the following two statements is **not** correct.

(a) The factors of an even number are always even.

.....

(1)

(b) All the digits in odd numbers are odd.

.....

(1)

(Total for Question 11 is 2 marks)

[Edexcel, GCSE, Summer 2018, Paper 1F, Q11]

8

Margaret is thinking of a number.
She says,

"My number is odd. It is a factor of 36 and a multiple of 3"

There are two possible numbers Margaret can be thinking of.

Write down these two numbers.

....

(Total for Question 6 is 3 marks)

[Edexcel, GCSE, Summer 2018, Paper 2F, Q6]

9

(a) Write down all the prime numbers between 20 and 30

.....

(2)

Catherine says,

"2 is the only even prime number."

(b) Is Catherine right?
You must give a reason for your answer.

.....

.....

(1)

(Total for Question 10 is 3 marks)

[Edexcel, GCSE, Summer 2018, Paper 2F, Q10]

10

Write down all the factors of 30

.....

(Total for Question 6 is 2 marks)

[Edexcel, GCSE, Summer 2018, Paper 3F, Q6]

11

Here is a list of numbers.

3 5 7 12 15 18 20

From the list, write down a factor of 10

.....

(Total for Question 3 is 1 mark)

[Edexcel, GCSE, Autumn 2018, Paper 1F, Q3]

12

Write down two prime numbers that have a sum of 32

..... , ...

(Total for Question 10 is 2 marks)

[Edexcel, GCSE, Autumn 2018, Paper 1F, Q10]

13

Write down a prime number that is between 20 and 30

.....

(Total for Question 4 is 1 mark)

[Edexcel, GCSE, Summer 2019, Paper 1F, Q4]

14

Write down two factors of 15

.....

(Total for Question 3 is 1 mark)

[Edexcel, GCSE, Summer 2019, Paper 2F, Q3]

15

Write down a multiple of 8 that is between 41 and 60

.....

(Total for Question 2 is 1 mark)

[Edexcel, GCSE, Summer 2019, Paper 3F, Q2]

16

Write down two factors of 12

..... , ...

(Total for Question 1 is 1 mark)

[Edexcel, GCSE, Autumn 2019, Paper 3F, Q1]

17

Here is a list of numbers.

7 8 15 16 18 22

Write down the number from the list that is a multiple of 6

.....

(Total for Question 4 is 1 mark)

[Edexcel, GCSE, Autumn 2019, Paper 3F, Q4]

18

Here is a list of numbers.

5 11 18 22 29

From the list, write down a multiple of 3

.....

(Total for Question 2 is 1 mark)

[Edexcel, GCSE, Autumn 2020, Paper 1F, Q2]

19

Write down **three** different factors of 20

..... , ... , ...

(Total for Question 7 is 2 marks)

[Edexcel, GCSE, Summer 2023, Paper 1F, Q7]

20

Here is a list of numbers.

20 40 60 80 100

One of these numbers is a multiple of 25

Which number?

.....

(Total for Question 5 is 1 mark)

[Edexcel, GCSE, Summer 2023, Paper 2F, Q5]

21

Write down a factor of 60 that is between 8 and 14

.....

(Total for Question 4 is 1 mark)

[Edexcel, GCSE, November 2022, Paper 1F, Q4]

22

Here is a list of numbers.

5 11 18 22 29

From the list, write down a multiple of 3

.....

(Total for Question 5 is 1 mark)

[Edexcel, GCSE, November 2022, Paper 2F, Q5]

23

Write down a 3 digit number that is a multiple of 5

.....

(Total for Question 4 is 1 mark)

[Edexcel, GCSE, Summer 2022, Paper 2F, Q4]

24

Write down two factors of 12

....

(Total for Question 3 is 1 mark)

[Edexcel, GCSE, Summer 2022, Paper 3F, Q3]