

Name:

Date:

Factors, Multiples and Primes

GCSE

Edexcel
Mathematics
Grade (9-1)

Mark

Score (%)

<hr/> 46

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Materials

For this paper you must have:

- Ruler
- Pencil, Rubber, Protractor and Compass
- Scientific calculator, which you are expected to use when appropriate

Instructions

- Answer all questions
- Answer questions in the space provided
- All working must be shown
- Do all rough work in this book. Cross out any rough work you don't want to be marked

Information

- The marks for the questions are shown in brackets

1 List the multiples of 3 between 14 and 22.

Leave
blank

.....
(Total for question 1 is 2 marks)

2 Write down the first even multiple of 7.

.....
(Total for question 2 is 1 mark)

3 Write down a multiple of 12 between 40 and 50.

.....
(Total for question 3 is 1 mark)

4 Write down 2 prime numbers between 25 and 32.

..... and

(Total for question 4 is 2 marks)

5 Write down the prime numbers between 15 and 30.

Leave
blank

.....
(Total for question 5 is 2 marks)

6 Write down all the prime numbers between 35 and 45.

.....
(Total for question 6 is 2 marks)

7 Write down all the factors of 21.

.....
(Total for question 7 is 2 marks)

8 Write down 2 factors of 42.

.....
(Total for question 8 is 2 marks)

9 Write down all the factors of 16.

Leave blank

.....
(Total for question 9 is 2 marks)

10 The sum of 2 prime numbers is 14.
What are the numbers?

.....and

(Total for question 10 is 2 marks)

11 The sum of 2 consecutive prime numbers is 36.
What are the numbers?

....., and

(Total for question 11 is 2 marks)

12 The sum of 2 prime numbers is an odd number.
What can these prime numbers be?

.....
(Total for question 12 is 2 marks)

13 Kevin says: “All prime numbers are also odd numbers”

Leave
blank

Is Kevin correct?

Use an example to support your answer.

.....
.....
.....

(Total for question 13 is 2 marks)

14 Hannah says: “99 is a prime number”

Is Hannah correct?

Use an example to support your answer.

.....
.....
.....

(Total for question 14 is 2 marks)

15 Hamna is thinking of a number.

She says, “My number is odd. It is a factor of 9”

What is the number?

.....

(Total for question 15 is 2 marks)

16 Laiba is thinking of a number.

She says: “My number is prime and a factor of 20. It is also greater than 4.”

What is the number?

.....

(Total for question 16 is 2 marks)

17 Harry is thinking of a number.

He says, "My number is prime. It is less than 20 and a factor of 34."

There are two possible numbers Harry can be thinking of.

Write down these two numbers.

Leave
blank

....., and

(Total for question 18 is 4 marks)

18 Here is a list of numbers:

1, 13, 2, 66, 40, 35, 37

From this list, write down:

(a) Prime numbers

.....
(1)

(b) Even numbers

.....
(1)

(c) Multiples of 4

.....
(1)

(Total for question 18 is 3 marks)

19 Here is a list of numbers:

10, 21, 45, 12, 4, 3, 7, 35

Leave
blank

From this list, write down:

(a) Prime numbers

.....
(1)

(b) Factors of 21

.....
(1)

(c) Multiples of 5

.....
(1)

(Total for question 19 is 3 marks)

20 Here is a list of numbers:

1, 2, 7, 9, 17, 34, 46, 49, 50, 55, 111

From this list, write down:

(a) Prime numbers

.....
(2)

(b) Odd numbers

.....
(2)

(c) Factors of 49

.....
(2)

(Total for question 20 is 6 marks)