Past Paper Questions

Q1.

Write down two factors of 12

..... , ...

(Total for question = 1 mark)

Q2.

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

.....

(Total for question = 1 mark)

Q3.

Express 56 as the product of its prime factors.

.....

(Total for question = 2 marks)

Q4.

Here is a list of numbers.

1 2 5 6 12

From the list, write down

(i) a multiple of 4

.....

(ii) a prime number

.....

(Total for question is 2 marks)

Q5.

Here is a list of eight numbers

4 5 4 25 29 30 33 39 40

From the list, write down

(i) a factor of 20

. . . . . .

(ii) a multiple of 10

. . . . . .

(iii) the prime number that is greater than 15

. . . . . .

(Total for Question is 3 marks)

Q6.

Write down the first even multiple of 7

.....

(Total for question = 1 mark)

Q7.

Here is a list of numbers.

5 15 30 50 60 90 100 125

From the numbers in the list, write down

(i) two different numbers that add up to an even number

.....

(ii) a multiple of 20

.....

(iii) a factor of 45

.....

(iv) a cube number

.....

(Total for Question is 4 marks)

Q8.

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

.....

(Total for question = 2 marks)

Q9.

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

.....

(Total for question = 2 marks)

Q10.

(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 = 3 marks)

Q11.

Tom and Amy set the alarms on their phones to sound at 6.45 am.

Both alarms sound together at 6.45 am.
Tom's alarm then sounds every 9 minutes.
Amy's alarm then sounds every 12 minutes.

At what time will both alarms next sound together?

.....

(Total for question = 3 marks)

Q12.
Express 180 as a product of its prime factors.

.....

(Total for Question is 3 marks)

Q13.
Write 36 as a product of its prime factors.

.....

(Total for question = 2 marks)

Q14.
Find the Lowest Common Multiple (LCM) of 108 and 120

.....

(Total for question = 3 marks)

Q15.

Write down two prime numbers that have a sum of 32

..... , ...

(Total for question = 2 marks)