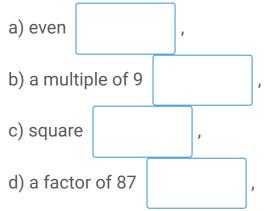
Find, and list in ascending order, all of the factors of the number 48(write the numbers separated by commas in ascending order)

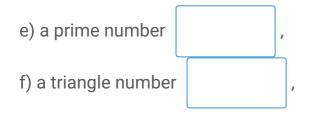
If a number is divisible by 66 then it must also be divisible by

The number 5 is a factor of 65 because it divides into 65 without a remainder. Write down the other three separated by commas factors of 65

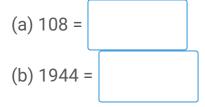
Write all the factors of 36(write the numbers separated by commas in ascending order)

From the numbers 21, 22, 23, 25, 27, 29, choose one which is:(a) even b) a multiple of 9 c) square d) a factor of 87 e) a prime number f) a triangle number

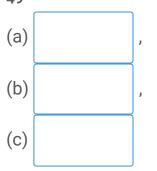




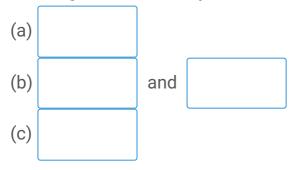
The number 36 can be written as 4 products of 2's and 3's i.e., 2x2x3x3 = 36 and 48 can be written as 2x2x2x2x3 = 48. Write the following numbers in a similar way.(a) 108(b) 1944



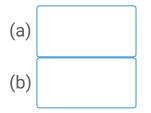
(a)Write down the prime numbers between 10 and 20 (b) Write down the first three multiples of 15 (c) Write down the factors of 49



Here is the start of a number pattern:1 4 7 10 13 16 (a) prime numbers (b)Write down the next 2 numbers in the pattern (c) What is the largest number in the pattern which is less than 40?



Here is the start of a number patternon:1 4 7 10 13 16, From the numbers in the list above, write down(a) factors of 8 (b) the product of 2 and 5



In this question, S(n) is the sum of all the positive factors of the positive integer n, including 1 and n. For example S(6)=1+2+3+6=12. Find S(169)

- 0 183
- 0 182
- 0 184
- 0 179

Olly thinks of a positive whole number. When he divides 60 by hisnumber, the answer is also a whole number. How many different numbers could Olly have thought of?

- 0 12
- 0 11
- 0 10
- 0 13

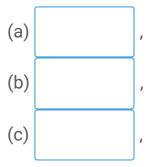
The prime factorisation of 60 is 2x2x3x5. What is the prime factorisation of 56?

- 2x2x2x7
- 8x7
- 2x2x7
- 2x7

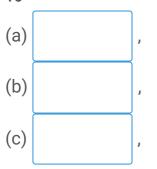
Here are some factors of 28: 1 2 4 14 28 .A perfect number is a special type of number. If you add up all its factors and halve the total, the result is the original number. Find a perfect number which is less than 10

- 6
- 0 5
- 7

Here are some factors of 28: 1 2 4 14 28 (a) Write down the missing factor of 28. (b) write down a factor of 28 which is also a prime number. (c) write down a factor of 28 which is also a square number.



(a)Write down all the prime numbers between 10 and 20 (b) Write down the first three multiples of 12 (c) Write down all the factors of 16



What is the smallest number that 3, 4, and 10 all go into?

- 0 70
- 65
- 75
- 60

Two numbers X and Y (where Y is bigger than X), have a Highest Common Factor of X. What is the Lowest Common Multiple of X and Y?

- Ο Υ
- O 2Y
- 🔿 ХҮ
- X2

O Y2

Here is a list of numbers 5,8,9,11,12,13,17,18,20. How many numbers in the list are multiples of 3?

- 0 0
- 0 1
- 0 2
- О з
- 0 4

What is the biggest number that divides into 16, 32, and 56?

- 0 16
- 8
- 32
- 56

A factor tree can be used to write any number as a product of prime factors.We can say that 180 =2x2x3x3x5 (The order of the numbers does not matter)Use a factor tree, or any other method you know, to write 420 as a product of prime factors.

- 2x2x3x5x7
- 2x3x5x7
- 3x5x7
- 2x2x3x5

A two-digit number is called a multisum if it is a multiple of the sum of ts digits. So 84 is a multisum since 8 + 4= 12 and 84 is a multiple of 12. Work out and write down all the numbers between 20 end 30 which are NOT multisums

- 22,23,25,26,28,29
- 23,25,26,28,29
- 22,23,25,26,28
- 22,23,25,28,29

The 'Blast' of a two-digit number is obtained as follows:The Blast of 63 is 216 because 6x6x6=216 and the Blast of 27 is 128 because 2x2x2x2x2x2x2 = 128 (a)Write down the Blast of the two digit number 34 (b) Which two digit number has a Blast of 125



The 'Blast' of a two-digit number is obtained as follows: The Blast of 63 is 216 because 6x6x6=216 and the Blast of 27 is 128 because 2x2x2x2x2x2 = 128 (a)Work out another two digit number which has the same Blast as 24 (b) A particular two digit number is Blasted and then that answer is also Blasted. If the final answer is 9, what was the original number?

(a)	,
(b)	

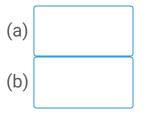
You have a set of cards numbered 1 to 40 inclusive. On each number that is a factor of 100, you draw a star. On each number that is a multipte of 4, you draw a circle.What is the probability of selecting a card that has both a star and a circle drawnon it? Give your answer as a fraction in its simplest form.

- 0 1/40
- 0 1/20
- 0 1/25
- 0 1/30

Jack Is thinking of a number between 1 and 50, it is a square number, it is also anodd number and a factor of 50. The number is NOT 1. What is the number Jack wasthinking of?

- 0 25
- 9
- 0 49

Imran notices that when he takes the digits of the number 652 and multiplies them together he gets 60. (a) How many three digit numbers are there whose digits multiply to give 60? .(b) What's the biggest three-digit number whose digits multiply together to give 40?

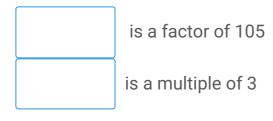


Select all the factors of 99

9
66
198
11
990
18
33
48

Write each of the numbers 31, 32, 33, 34, 35 and 36 in the spaces below, using each number only once, to make all of the statements true.

is a multiple of 8
has exactly four factors
is a square number
is a prime number



Select all the factors of 150

100
10
30
3
7
8
11
45

Write down one number that is both (a). Even and prime (b) Smaller than 20 and has exactly three different factors

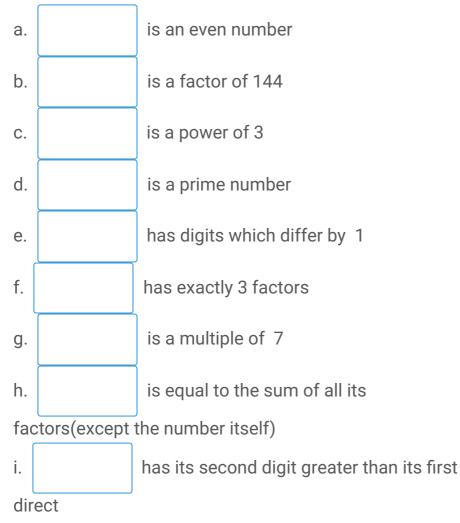


If 5! Means 5x4x3x2x1 and 4! Means 4x3x2x1 (a). Work out the value of 6! (b). Fill in the box if 3! x 4 = []! (c) Fill in the box if 3! x 20 =[]! (a) (b) (c)

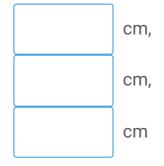
A rectangle has an area of 70cm? and a perimeter of 38cm. What is the length of the shortest side of the rectangle in cm?

- 0 5
- 07
- 0 14

The numbers 21 and 29 inclusive are to be written in the spaces below so that each number satisfies the condition given on the line where you have written it, with each number appearing only once



A cuboid has faces with areas of 24 sq cm sq, 32 sq cm and 48 sq cm What are the lengths of its edges?(in ascending order)



Think of two integers that have a product of 18 and a difference that is the sameas one of the two integers that you are thinking of. (write the numbers separated by commas)

\frown	
()	1.18
\smile	1,10

- 3,6
- O none

Krishani draws a rectangle with an area of 12 cm? and its sides are whole numberlengths. Its perimeter is 14cm. How long is the longest side in cm?

- 0 4
- О З
- 6
- 2

Give every prime number that goes exactly into both 12 and 18, think of factors. (write the numbers separated by commas)

- 2,3
- 3,5
- 3,7
- 2,5

Three prime numbers multiply together to get 110. What are they?(write the numbers separated by commas)

- 2,5,11
- 2,11
- 5,11
- 0 1,2,5,11

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