



## MATHS

## NUMBERS

### Question Bank

1. What is, the relation between the total number of dots and the number of dots along the width and height?



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2. If 2 and 3 are factors of a number, should 6 also be a factor of that number?.



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3. If 4 and 6 are factors of a number, should 24 also be a factor of that number?



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4. If 4 and 6 are factors of a number, what is the largest number we can say for sure is a factor of that number?



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5. Given two factors of a number, under what conditions can we say for sure that the product of these factors is also a factor?



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6. Which students opened or, closed the 12<sup>th</sup> box?



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7. What is the relation between 12 and these numbers?



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8. How much students opened or closed the 12<sup>th</sup> box?



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9. Can you find all numbers between 1 and 100, which have an odd number of factors?



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**10.** We can split 216 as  $216 = 6 \times 6 \times 6$ . Can we say that the only factors of 216 are the 4 numbers 1, 6, 36, 24. What are the other factors of 216?



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**11.** Find all factors of the numbers below. i) 256  
ii) 625 iii) 243 iv) 121



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**12.** Which are the numbers between 1 and 100 having exactly three factors?



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**13.** Find all the factors of the numbers below: i) 242 ii) 225 iii) 400 iv) 1000



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**14.** Factorize each of the numbers below as the product of primes and write all factors in a table. Write also the number of factors of each. i) 72 ii) 108 iii) 300 iv) 96 v) 160 vi) 486 vii) 60 viii) 90 ix) 150



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**15.** Find the number of factors of 6, 10, 15, 14, 21. Find some other numbers with exactly four factors.







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**16.** Is it correct to say that any number with exactly four factors is a product of two distinct primes?



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**17.** The number 4 has 3 factors and number 6 has 4 factors. Can we say that  $4 \times 6 = 24$  has 3 factors? Multiply each factor of 4

by each factors of 6 . Why did we get the number of factors, wrong?



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**18.** What Is the number with this factor table?



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**19.** Find the number of factors of each of these numbers. i)500 li) 600 III) 700 Iv) 800 v). 900



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**20.** How many factors does a product of three distinct primes have? What about a product of 4 distinct primes?



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**21.** Find two numbers with exactly five factors.



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**22.** What is the smallest number with exactly five factors?



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**23.** How many even factors does 3600 have?



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