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Factor Tree Worksheet

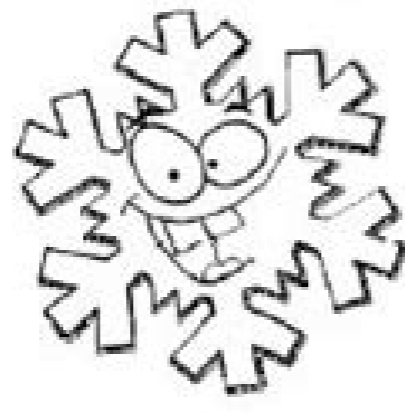
Name: _____
 Section: _____
 Date: _____

Use a factor tree to find the prime factorization. (put answer in exponential form)

- | | | |
|---------|---------|----------|
| 1) 20 | 2) 54 | 3) 72 |
| 4) 100 | 5) 70 | 6) 24 |
| 7) 77 | 8) 120 | 9) 3,000 |
| 10) 450 | 11) 81 | 12) 36 |
| 13) 18 | 14) 200 | 15) 144 |

Name _____ Date _____

Factoring to Prime Factors



Factor the following numbers to their prime factors.

1. 65	11. 81
2. 117	12. 72
3. 51	13. 33
4. 119	14. 28
5. 58	15. 38
6. 31	16. 26
7. 47	17. 9
8. 45	18. 35
9. 53	19. 15
10. 37	20. 85

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Name _____ Date _____

Prime and Composite

Write the factors for each number. Then decide if it is prime or composite.

Number	Factors	Prime or Composite?
1) 6	_____	_____
2) 15	_____	_____
3) 11	_____	_____
4) 20	_____	_____
5) 5	_____	_____
6) 48	_____	_____
7) 14	_____	_____
8) 12	_____	_____

Name : _____ Score : _____
Teacher : _____ Date : _____

Using Prime Factorization to find the LCM and GCF		
	LCM	GCF
1) 4, 5, 24	_____	_____
2) 4, 15, 16	_____	_____
3) 32, 34, 36	_____	_____
4) 34, 35, 32	_____	_____
5) 21, 24, 36	_____	_____
6) 10, 16, 21	_____	_____
7) 21, 36, 32	_____	_____
8) 34, 21, 14	_____	_____
9) 35, 15, 12	_____	_____
10) 34, 15, 4	_____	_____



Find greatest common factor homework questions.

1. 27, 63, 9	1. 56, 63	1. 42, 63
2. 77, 66	2. 88, 66	2. 88, 55
3. 10, 12	3. 30, 12	3. 30, 60
4. 20, 16	4. 36, 16	4. 80, 16
5. 9, 21	5. 9, 45	5. 75, 45
6. 18, 27	6. 18, 54	6. 81, 54
7. 20, 24	7. 20, 30	7. 90, 30
8. 54, 12	8. 48, 12	8. 48, 108

Eratosthenes was a Greek mathematician (as well as being a poet, an astronomer and musician) who lived from about 276BC to 194BC. By correctly working out the clues in each riddle, all the incorrect answers are eliminated leaving just one correct answer. It will show the answer in exponential form as well as standard form. Examples: $10 = 2 \times 5$, both factors 2 and 5 are prime numbers $12 = 2 \times 2 \times 3$, both factors 2 and 3 are prime numbers $42 = 2 \times 3 \times 7$, all factors 2, 3 and 7 are prime numbers How to find prime factorization of any whole number? Find the prime factorization of 100 and 70 and then the prime factorization of 7000 knowing that $7000 = 100 \times 70$ a) Find the prime factorization of 10. We have split the worksheets on this page into two sections: 2-digit x 1-digit multiplication (3rd grade) 2-digit x 2-digit multiplication (4th grade) Each section ends with some trickier challenge sheets for more able students. Take a look at some more of our worksheets similar to these. So $40 = 2 \times 20 = 2 \times 2 \times 10 = 2 \times 2 \times 2 \times 5$ Our final answer is $40 = 2 \times 2 \times 2 \times 5 = 2^3 \times 5$ Example 2) Find the prime factorization of 45. What is the prime factorization of $A \times B$? Now we have to factorize 9. Prime factorization is unique and can be achieved by successive division using the prime numbers: 2, 3, 5, 7, 11, ... The answers are given with the factors in ascending order. There are 2 riddles on each sheet and 8 possible answers. The challenges involve finding all possible numbers that have certain features involving prime factors. Now we move on to the number 20. $126 = 2 \times 63$ Now we need to factorize 63. Detailed Solutions and explanations are included. Factors and Multiples Worksheets Our prime factorization calculator will help you factor any number into a product of its prime factors. As well as our calculator, we also have a range of greatest common factor worksheets. $20 = 2 \times 10$ So $40 = 2 \times 20 = 2 \times 2 \times 10$ Now we factorize 10 into 2×5 (both prime numbers) and we cannot go any further, as all the numbers are prime. These sheets have been designed for 6th and 7th grade students. As the number ends in a 5 we know that 5 is a factor. Sheet 1 involves 2-digit by 2-digit multiplication with smaller numbers and answers up to 1000. The prime factorization of 30 involves all divisors and the last result: $30 = 2 \times 3 \times 5$ 2 - Find the prime factorization of 60. These sheets are aimed at students from 6th grade and upwards. We have split the sheets into 3 different sections: Our first section involves straightforward prime factorization of different numbers. Our prime factorization challenges are a great way to stretch more able students. If you want to find out more about his sieve for finding primes, and print out some Sieve of Eratosthenes worksheets, use the link below. We have plenty of worksheets on this page to help you practice the skills of multiplying 2-digit numbers by 1 or 2 digits. They will help students learn and practice finding the greatest common factor of numbers up to 100. a) 28 , b) 32 , c) 100 , d) 126 , e) 900 Two numbers A and B are given by: $A = 2 \times 3 \times 5 \times 2 \times 11$ and $B = 2 \times 2 \times 5 \times 13$. The third sheet is harder, and involves using exponential notation and looking at prime factorization from different starting points These sheets involve solving prime factorization riddles. We also have a link to our Prime Factorization Calculator which will quickly and easily show you all the prime factors of any number. There are also many different questions about prime numbers answered, as well as information about the density of primes. Using these games will help your child to learn their multiplication facts to 5×5 or 10×10 , and also to develop their memory and strategic thinking skills. . Grade 7 maths questions are presented along with detailed solutions. The two sheets just has straightforward prime factorization of a range of numbers, and so on): $15 + 3 = 5$ STEP 3: The result of the division in step 2 is the prime number 5. 2) 2, 3, 4 and 6 and factors of 12 because $2 \times 2 \times 3 = 12$ $4 \times 3 = 12$ $2 \times 6 = 12$ What is prime factorization? To find out more about prime factorization, including how it works and to look at some worked examples, take a look at our prime factorization support page. Which of the following is not a prime factorization? $9 = 3 \times 3$ (which is a prime number). $45 = 5 \times 9$. These 2-digit multiplication worksheets have been designed for more able students who need that extra challenge! We have more 2-digit multiplication worksheets, including 2-digit x 3-digit multiplication problems on this page, see below example below. Sheets 1 and 2 involve multiplying 2-digit numbers by 2, 3, 4 or 5. Here you will find our selection of worksheets involving finding prime factorizations for a range of numbers, and for solving prime factor problems. We have worksheets to help you understand more about factors and multiples. Least Common Multiple Worksheets The Sieve of Eratosthenes is a method for finding what is a prime numbers between 2 and any given number. What is prime factorization of numbers in maths? Answer the following questions on prime factorization. Sheets 2 to 4 have harder 2-digit numbers to multiply and answers that are generally larger than 1000. and so on): $30 + 2 = 15$ STEP 2: Divide the result of the division in step 1 by the first prime number 2 if possible (if not by the next prime numbers 3, 5, 7 ... Factors are numbers that when multiplied together gives another number. Prime Factorization Calculator Using factor trees is a great visual way to understand prime factorization. They are aimed at a 4th/5th grade level. Again 20 is even, so 2 is a factor. All the free 3rd Grade Math Worksheets in this section are informed by the Elementary Math Benchmarks for 3rd Grade. a) $20 = 2 \times 10$, b) $14 = 2 \times 7$, c) $64 = 4 \times 3$, d) $120 = 2 \times 3 \times 15$ What is the prime factorization of the following numbers? Here you will find a range of Multiplication Worksheets to help you become more fluent and accurate with your tables. 45 is odd, so 2 is not a factor. Page 2 Welcome to our 2 Digit Multiplication Worksheets page. Using these factor tree worksheets will help your child to: practice prime factorization of a range of numbers; solve problems involving prime factorization; use and understand exponential notation. The worksheets on the link below are at an easier level to the sheets on this page and help children learn all about factor trees and prime factors. c) Use the result in part a) and the fact that $1000 = 10 \times 10 \times 10$ to find the prime factorization of 1000. Within each section, the sheets are carefully graded with the easiest sheets first. Our next group of sheets involves solving prime factorization riddles. What is prime factorization of numbers in maths? $63 = 7 \times 9$. Follow these 3 easy steps to get your worksheets printed out perfectly! How to Print or Save these sheets Need help with printing or saving? These 2-digit multiplication worksheets have been designed for more able students who need that extra challenge! These sheets are aimed at 4th graders. Here you will find a range of Free Printable Multiplication Games to help kids learn their multiplication facts. More Double digit Multiplication Worksheets (harder) Take a look at some more of our worksheets similar to these. 40 is even, so we know that 2 is a factor (as well as being prime) $40 = 2 \times 20$. The sheets get gradually harder in each section. The sheets vary in difficulty, and are suitable for 6th grade and up. Prime factorization is to factor a number into prime numbers ONLY. We stop. We have a range of sheets at different levels of difficulty. Follow these 3 easy steps to get your worksheets printed out perfectly! The Math Salamanders hope you enjoy using these free printable Math worksheets and all our other Math games and resources. This gives us: $45 = 5 \times 9 = 5 \times 3 \times 3$ Our final answer is $45 = 3 \times 3 \times 5 = 3^2 \times 5$ Example 3) Find the prime factorization of 126. b) Use the result in part a) and the fact that $100 = 10 \times 10$ to find the prime factorization of 100. You can use this calculator to check that your prime factors in your factor trees are correct. Need to create your own long or short multiplication worksheets quickly and easily? STEP 1: Divide the given number by the first prime number 2 if divisible (if not by the next prime numbers 3, 5, 7 ... Sieve of Eratosthenes page Take a look at our Prime Number page which clearly describes what a prime numbers is and what they are not. 7 is prime, but 9 is not Now we have to factorize 9. Sheets 1 to 4 consists of 15 problems; sheets 5 and 6 consist of 20 problems. Multiplication Math Games How to Print or Save these sheets Need help with printing or saving? These sheets are aimed at 3rd graders. Our Multiplication worksheet generator will allow you to create your own custom worksheets to print out, complete with answers. How to Print or Save these sheets Need help with printing or saving? 126 is even, so 2 is a factor. Sheets 3 to 6 involve multiplying a 2-digit number by single digit numbers and finding increasing trickier products. We present the "tree method" of prime factorization which is based on the method of division but its presentation is slightly different. We welcome any comments about our site or worksheets on the Facebook comments box at the bottom of every page. What are factors? Examples: 1 - Find the prime factorization of 30. What is Prime Factorization support page Example 1) Find the prime factorization of 40. This gives us: $126 = 2 \times 63 = 2 \times 7 \times 9 = 2 \times 7 \times 3 \times 3$ Our final answer is $126 = 2 \times 3 \times 3 \times 7 = 2 \times 3^2 \times 7$ All the worksheets have answers provided. Greatest Common Factor Worksheets We have a range of worksheets on how to find the least common multiple of two or three numbers. Examples: 1) 2 and 5 are factors of 10 because $2 \times 5 = 10$. d) Use the results in parts a), b) and c) to find a pattern of prime factorization and find the prime factorization of 1000,000. Our final group of sheets involves finding all possibilities in our prime factorization challenges. Using these sheets will help your child to: learn their multiplication tables up to 10×10 ; understand and use different models of multiplication; solve a range of Multiplication problems. More Middle School Math (Grades 6, 7, 8, 9) - Free Questions and Problems With Answers More High School Math (Grades 10, 11 and 12) - Free Questions and Problems With Answers More Primary Math (Grades 4 and 5) with Free Questions and Problems With Answers Home Page report this ad Welcome to our Prime Factorization Worksheets page. A Prime Factors Calculator may be used to check your answers.

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